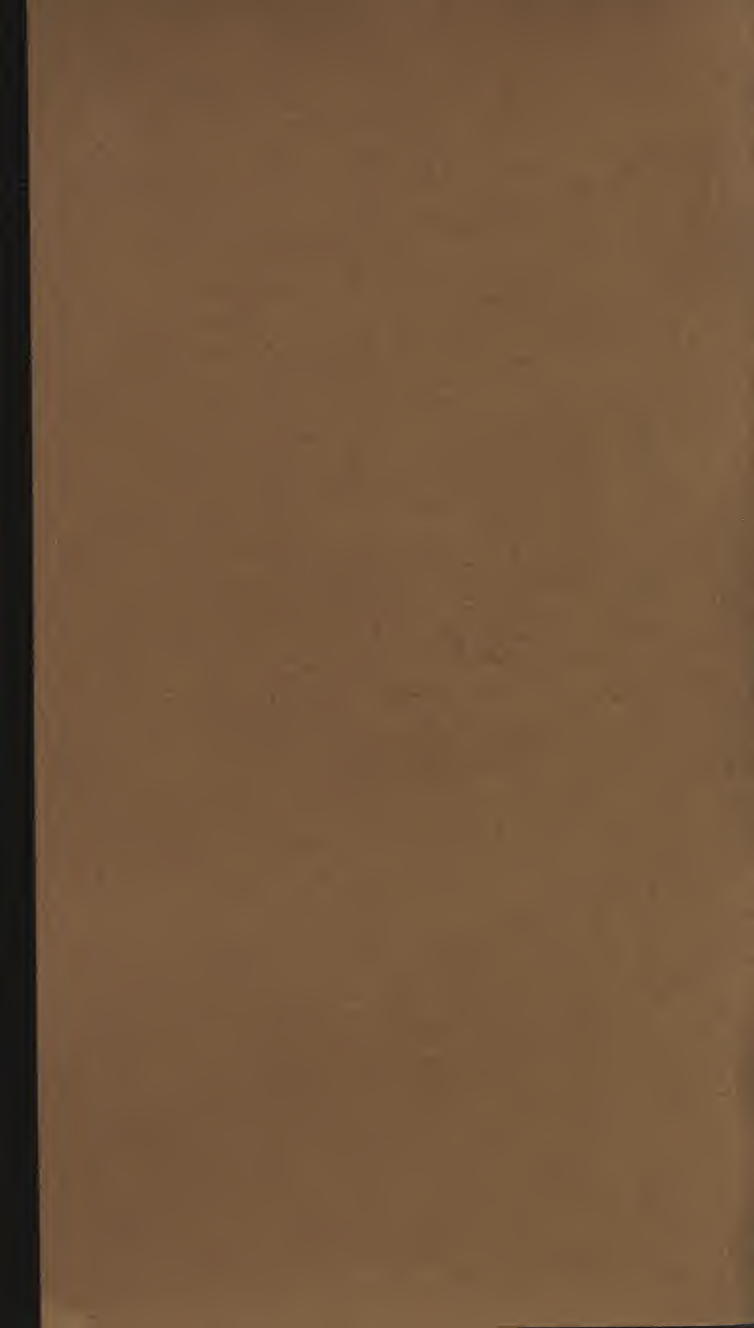




Square D

Safety Switches

Make Electricity Safe for Everyone



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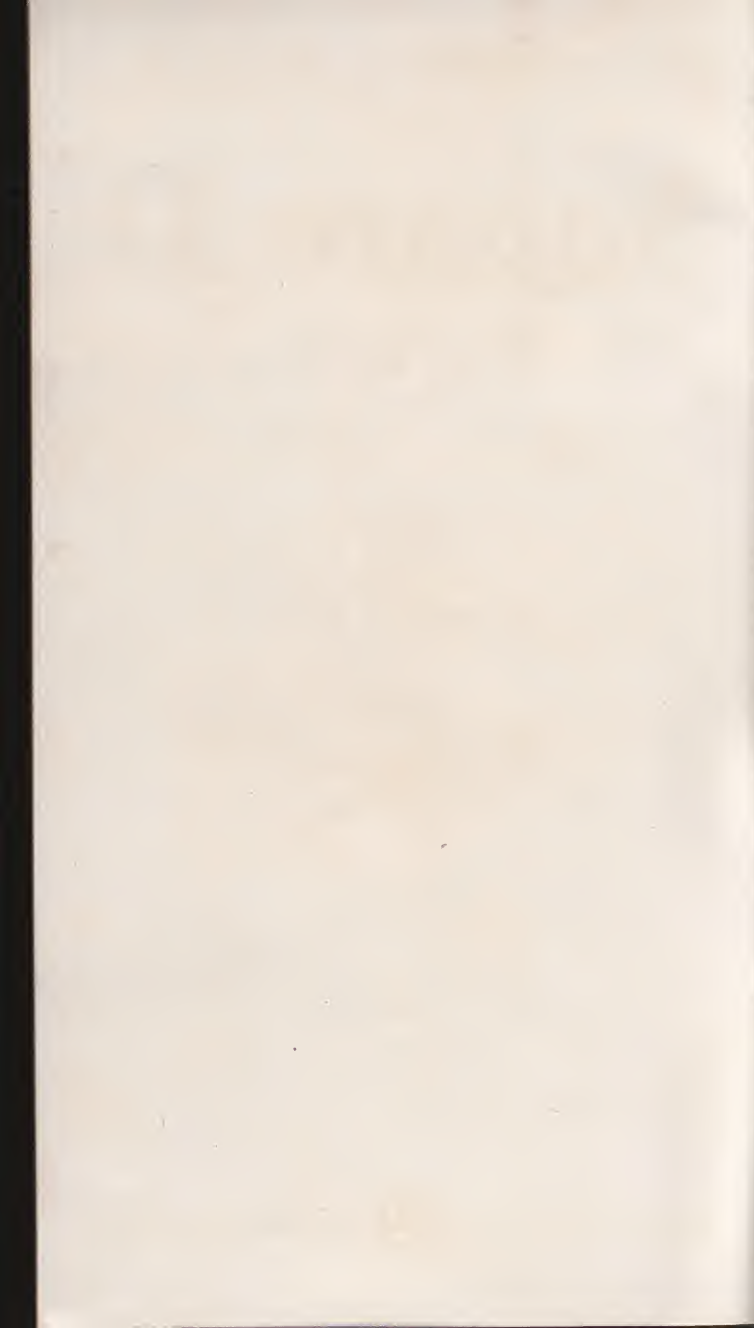
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Square D

Safety Switches



STEEL ENCLOSED INDUSTRIAL
CONTROL SWITCHES, SERVICE
ENTRANCE SWITCHES, MOTOR
STARTERS, COMPENSATOR TYPE
SWITCHES, PLUG RECEPTACLES,
IRON CLAD SWITCHES, METER
PROTECTIVE TRIMS,
ACCESSORIES

Catalog No. 25-A

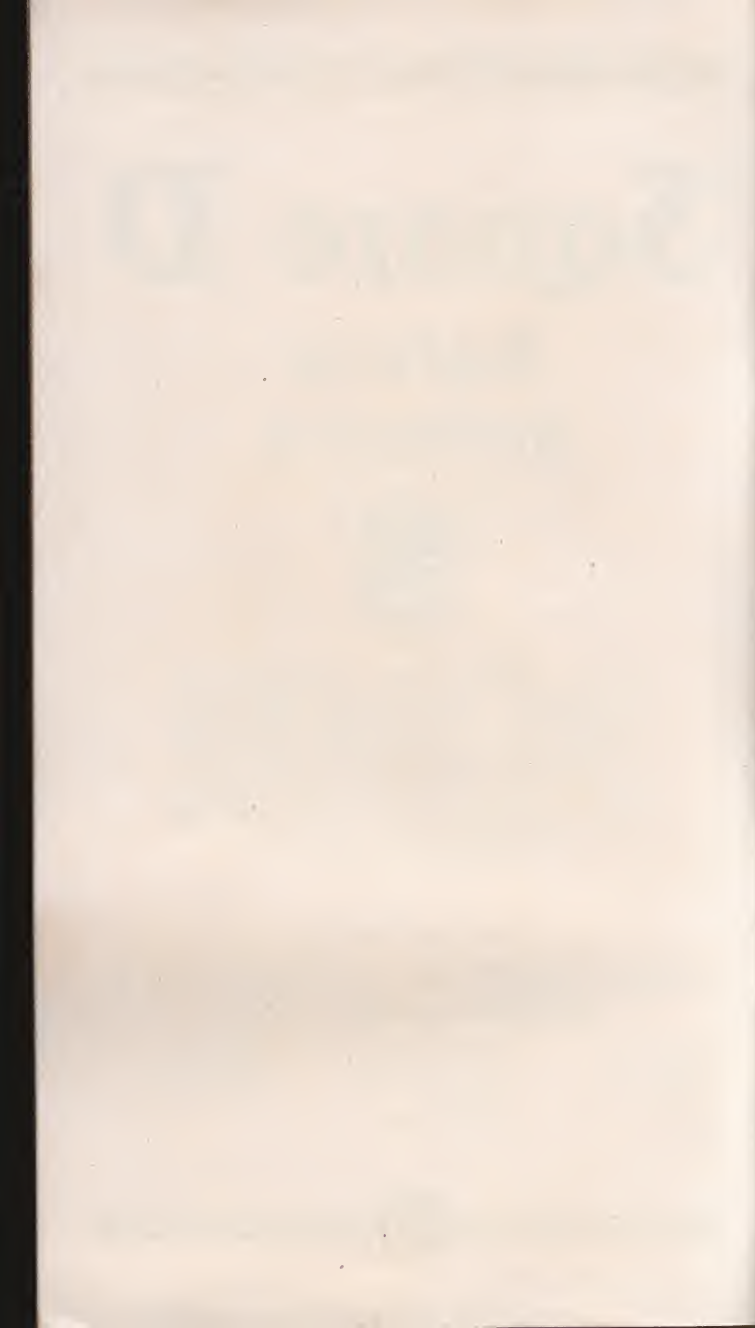
S Q U A R E D C O M P A N Y
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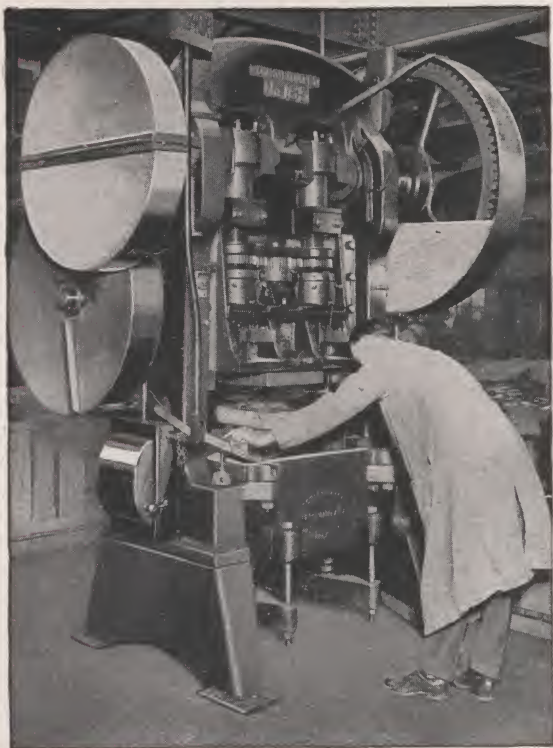


FOREWORD

DO you ever pause to realize the value of the many safeguards that protect workmen against ugly accidents in the course of a day's work? It isn't necessary to argue that safety devices are less expensive than accident claims—everyone knows it.

Safety devices prevent serious and costly accidents with consequent shutdowns, loss of efficiency, slowed up production, labor trouble, and the actual dollars and cents cost to the employer—for he is the man who pays the cost of an employee's carelessness or ignorance.

And so it is merely good business for the man who is responsible for those in his employ, to protect them, and himself too, with every possible safeguard, thereby clearing his mind from constant worry, keeping his workers happy, safe and contented, increasing their efficiency and making his business profitable both to himself and his employees.



Stamping Square D Switch Boxes. Safeguards shown—covered gears, safety levers and safety switch—insure this workman against accident and permits top-notch production



SQUARE D SAFETY SWITCHES MAKE ELECTRICITY SAFE FOR EVERYONE

SQUARE D Safety Switches eliminate all danger of accidents and fire due to open knife electric switches.

Nothing complicated—nothing to wear out or get out of order. Just a simple, easily operated, common sense safety device.

The switch unit is completely enclosed in a metal box provided with a hinged cover. The switch is easily operated by a handle on the outside of the box. A safety locking off feature prevents careless closing of the switch when anyone is working on the line or the equipment controlled by the switch, thus protecting workmen against death or serious injury caused by accidental starting of machinery.

Cover can also be locked shut to prevent unauthorized persons overfusing the switch or in any way tampering with the connections.

The quick-break mechanism with which these switches are equipped is positive and insures a simultaneous break at all blades. Great durability is thus assured.

Removable and interchangeable end plates are provided. These plates are furnished blank, with knockouts, or with porcelain outlet covers, according to installation requirements. Convenient knockouts are furnished in back and sides of boxes. All boxes are designed so that ample wiring space is provided inside to make the necessary connections. Square D Safety Switches are shipped completely assembled ready for immediate installation.

Square D Safety Switches are built in two, three and four-pole types, in standard voltages of 125, 250, 500 A. C. and 600 volts and in capacities from 30 to 1200 amperes, inclusive. There are more than 300 different types and sizes of Square D Safety Switches—a switch for every possible requirement.

The Square D Iron Clad Switches and Motor Starters have a quick-make and break mechanism inclosed in a cast iron housing. These switches are intended for service under severe conditions where they are exposed to water, steam, fumes, etc.

Square D Safety Switches are listed as standard for both fire and accident prevention by the Underwriters' Laboratories of the National Board of Fire Underwriters, and were the first to bear the combined fire and accident label of the Underwriters' Laboratories. Their serial No. 1 was issued to this company.

Square D Safety Switches meet the requirements of the National Electrical Safety Code of the Bureau of Standards, Department of Commerce, Washington, D. C.

And Square D Switches are sanctioned by the Workmen's Compensation Bureau.



SIMPLE KEY TO CATALOG NUMBERS

The following simple key permits easy identification of Square D Safety Switch ratings without necessity for reference to the catalog pages. Inversely, when only the specifications of a switch are given, the applying catalog number may likewise be instantly determined. Familiarity with this "rule of thumb" will simplify and facilitate the selecting of switches and the handling of orders, and expedite the interpretation of telegrams or other communications.

With the exception of the four "Ironclad" switches listed on page 51 of this book, all catalog numbers of Square D Safety Switches consist of five figures. The first two figures of each number indicate the general type or class of switch. Thus, taking as an example No. 56253, the figures 56 denote the standard Single Throw Bottom Fused Switch. Complete classification follows:

- 50—Single Throw Bottom Fused Severe Service Switch.
 - 51—Single Throw Unfused Switch.
 - 52—Double Throw Unfused Switch.
 - 56—Single Throw Bottom Fused Switch.
 - 57—Single Throw Solid Neutral Bottom Fused Switch.
 - 65—Star Delta Connected Motor Starter.
 - 66—Straight Connected Motor Starter.
 - 78—Bottom Fused Compensator Switch, and Meter Protective Devices.
 - 96—Bottom Fused Service Entrance Switch with solid ends.
 - 97—Bottom Fused Solid Neutral Service Entrance Switch with solid ends.
- The third figure in each catalog number denotes the number of poles; 2

represents 2 poles; 3 represents 3 poles, and 4 represents 4 poles. Thus, again taking No. 56253 as an example, the third figure makes it at once apparent that this is a 2-pole switch.

The fourth figure indicates the voltage rating.

- | | |
|-------------|-------------|
| 1—125 volts | 5—250 volts |
| 4—500 volts | 6—600 volts |

Again taking No. 56253, the fourth figure instantly tells us that this is a 250-volt switch.

The fifth and last figure in the number denotes the capacity in amperes:

- | | |
|---------------|----------------|
| 1— 30 amperes | 5— 400 amperes |
| 2— 60 amperes | 6— 600 amperes |
| 3—100 amperes | 7— 800 amperes |
| 4—200 amperes | 8—1200 amperes |

The figure 3 therefore indicates the No. 56253 switch as having a capacity of 100 amperes.

As a final example take the number 57311. The first two figures (57) tell us this is a single throw solid neutral bottom fused switch; the third figure (3) that it has 3 poles; the fourth figure (1) that it is a 125-volt switch; and the last figure (1) that its capacity is 30 amperes.



SQUARE D SAFETY SWITCHES

All boxes, except those indicated as having solid ends, are made with openings at each end in which end plates are to be inserted to meet any desired wiring requirements, and it is necessary to order end plates with each of these boxes to have the device complete.

End Plates to fit ends of Class A boxes are listed as Class A end plates.

End Plates to fit ends of Class B boxes are listed as Class B end plates.

End Plates to fit ends of Class C boxes are listed as Class C end plates.

When ordering switches be sure to specify catalog numbers of end plates wanted. If end plates are not specified, and unless definite instructions are given **not** to furnish switches complete with end plates, we will ship and bill end plates according to our best judgment.

SERVICE ENTRANCE TYPE

Single Throw—Fused Bottom

For Edison Plug Fuses			125 Volts DOUBLE POLE		List Prices Subject to Schedule B Discounts		
Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 2 Conduit Open End Plates	List Each with 2 Wiring End Plates
Accan	56211	30	Class A	4½	\$3.00	\$3.40	\$3.80
Accoe	96211	30	*S. E.	4¾	3.00	*S. E.	*S. E.

TRIPLE POLE

Addab	56311	30	Class A	4¾	4.50	4.90	5.30
Addor	†57311	30	Class A	4¾	4.50	4.90	5.30
Adzer	96311	30	*S. E.	5	4.50	*S. E.	*S. E.
Axor	†97311	30	*S. E.	4¾	4.50	*S. E.	*S. E.

FOUR POLE

Afane	56411	30	Class A	10	6.75	7.15	7.55
-------	-------	----	---------	----	------	------	------

Double Throw—Not Fused

			125 Volts 3 POLE		List Prices Subject to Schedule A Discounts		
Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 2 Conduit Open End Plates	List Each with 2 Wiring End Plates
Abava	52311	30	Class A	5¾	\$13.60	\$14.00	\$14.40

Prices do not include fuses.

*S. E. (Solid Ends) Box has four ½ inch knockouts in each top and bottom. No solder lug is furnished.

†Made with solid unfused neutral.





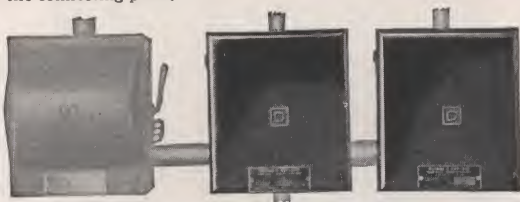
No. 56211 and 96211 Closed

No. 56211 Open

SQUARE D ENCLOSED CUT-OUT FOR USE WITH SQUARE D SAFETY SWITCHES

This new Square D Enclosed Cut-out has been designed in response to an insistent demand for an enclosed branch circuit cut-out adapted to use in connection with Square D Switches. The double-branch cut-out is arranged for two wire distribution from either two or three wire service. The box is equipped with latch so that it may be locked or sealed shut and is provided with knock-outs so that distributing circuits may be carried out in the most convenient manner.

The use of special connecting end plate No. 18318 permits the attachment of box to any Square D Safety Switch, either top or bottom. As box is made with both ends open, a standard Class A end plate is always required in addition to the connecting plate.



96211 connected with two 35211's BRANCH CUT-OUT

For Edison Plug Fuses

125 Volts

List Prices Subject to
Schedule B Discounts

Code Word	Catalog No.	Standard Package	Weight, Lbs.	List each without End Plates	List each with 1 Con- necting End Plate and 1 Conduit End Plate	List each with 1 Con- necting End Plate and 1 Open Wiring End Plate
Bracer	35211	50	4	\$2.70	\$3.10	\$3.30

Special connecting end plate listed on page 40.

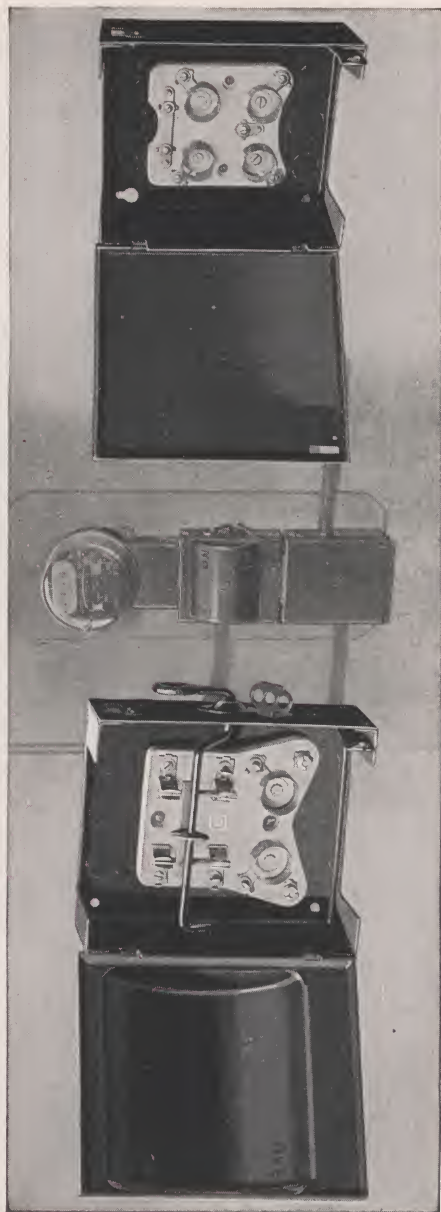
SQUARE D METER PROTECTIVE AND METER TESTING DEVICES

The 78000 series entrance switches are designed for meter testing and are arranged so that meter test connections can be readily applied. These switches are essentially a separate cut-out and switch, entirely disconnected from each other electrically, but mounted on the same base. By this arrangement the service can be brought into the cut-out, through the meter and thence to the switch. (The National Electrical Code permits the service meter to be connected between the cut-out and the switch.)

When connected in this manner the service switch can be used to disconnect the meter terminals for testing, provided the customer's load has previously been connected direct to the service leads through by-passing the meter by means of jumpers which can be quickly fastened in place by the meter tester. In the 125 volt units, the load connections of the switch and the meter connections of the cut-out are provided with corrugated thumb screws so that jumpers may be securely attached by spring clips. In the higher voltage switches the jumpers may be attached to fuse clips and switch blades by means of clips.

Diagrams for the different methods of testing will be furnished on request.





No. 35211 Enclosed Cut-Out

SQUARE D METER PROTECTIVE AND METER TESTING DEVICES

Single Throw—Fused Bottom

For Edison Plug Fuses			125 Volts DOUBLE POLE		List Prices Subject to Schedule B Discounts		
Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 2 Conduit End Plates	List Each with 2 Open Wiring End Plates
Abben	78211	30	Class A	4 $\frac{3}{4}$	\$3.00	\$3.40	\$3.80

TRIPLE POLE

Abbit	*78311	30	Class A	5	\$4.50	\$4.90	\$5.30
Where meter protective trim is used only one end plate is required. Meter trim takes extra cost according to catalog number required..							
*Made with solid unfused neutral.							

For N. E. C. S. Fuses			250 Volts DOUBLE POLE		List Prices Subject to Schedule A Discounts		
Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 2 Conduit End Plates	List Each with 2 Open Wiring End Plates
Fabat	78252	60	Class B	14	\$24.80	\$26.00	\$26.80
Fabix	78253	100	Class B	24	38.80	40.00	40.80
Faboy	78254	200	Class C	44	58.40	60.00	61.20

TRIPLE POLE

Facan	78351	30	Class B	22 $\frac{1}{2}$	28.20	29.40	30.20
Facco	78352	60	Class B	23	32.20	33.40	34.20
Facer	78353	100	Class B	33	50.20	51.40	52.20
Facin	78354	200	Class C	64	81.60	83.20	84.40
Facop	78355	400	Class C	95	167.60	169.20	170.40
Facsi	78356	600	*S. E.	145	240.00	S. E.	S. E.
Fact	78357	800	*S. E.	170	400.00	S. E.	S. E.
Factor	78358	1200	*S. E.	375	550.00	S. E.	S. E.

FOUR POLE

Fadar	78451	30	Class B	24	38.20	39.40	40.20
Fadex	78452	60	Class B	26	44.20	45.40	46.20
Fadda	78453	100	Class C	55	69.60	72.40	72.40
Fades	78454	200	Class C	103	121.60	123.20	124.40
Fadig	78455	400	Class C	120	177.60	179.20	180.40
Fadjo	78456	600	*S. E.	170	360.00	S. E.	S. E.
Fadok	78457	800	*S. E.	310	530.00	S. E.	S. E.
Fadum	78458	1200	*S. E.	430	750.00	S. E.	S. E.

Always specify catalog numbers of end plates wanted. Prices do not include fuses.

Where meter protective is used only one end plate is required.

Meter protective extra according to catalog number required,—see page 19.

Made with 60 ampere blades and quick-break mechanism but with 30 ampere fuse spacings.

*(S. E.—Solid Ends) We drill to order ends of solid end boxes at 50c list each per hole.



SQUARE D SAFETY SWITCHES **METER TESTING TYPE** **for** **SERVICE ENTRANCES**

Single Throw—Fused Bottom

500 Volts A. C.

For N. E. C. S. Fuses

TRIPLE POLE

**List Prices to Subject
Schedule A Discounts**

Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 2 Conduit	List Each with 2 Open Wiring
						End Plates	End Plates
Feble	78341	30	Class B	25	\$ 34.20	\$ 35.40	\$ 36.20
Febor	78342	60	Class B	26	38.20	39.40	40.20
Febus	78343	100	Class B	35	56.20	57.40	58.20
Fecil	78344	200	Class C	65	85.60	87.20	88.40
Fecop	78345	400	†S. E.	135	180.00	†S. E.	†S. E.
Fecur	78346	600	†S. E.	150	260.00	†S. E.	†S. E.

800 amperes capacity and over listed under 3 pole 600 volt switches.

FOUR POLE

Fedac	78441	30	Class B	32	44.20	45.40	46.20
Feder	78442	60	Class B	36	50.20	51.40	52.20
Fedig	78443	100	Class C	42	77.60	79.20	80.40
Fedop	78444	200	Class C	80	115.60	117.20	118.40
Fenep	78445	400	†S. E.	160	200.00	†S. E.	†S. E.
Fepos	78446	600	†S. E.	245	370.00	†S. E.	†S. E.

800 amperes capacity and over listed under 4 pole 600 volt switches.

600 Volts

TRIPLE POLE

Fines	78361	30	Class B	32	46.20	47.40	48.20
Finger	78362	60	Class B	33	48.20	49.40	50.20
Fings	78363	100	Class C	69	81.60	83.20	84.40
Finis	78364	200	Class C	98	121.60	123.20	124.40
Finor	78365	400	†S. E.	164	280.00	†S. E.	†S. E.
Finre	78366	600	†S. E.	315	530.00	†S. E.	†S. E.
Finsu	78367	800	†S. E.	370	770.00	†S. E.	†S. E.
Finul	78368	1200	†S. E.	430	1000.00	†S. E.	†S. E.

FOUR POLE

Fixar	78461	30	Class B	39	60.20	61.40	62.20
Fixeg	78462	60	Class B	40	66.20	67.40	68.20
Fixia	78463	100	Class C	85	100.60	102.20	103.40
Fixin	78464	200	Class C	120	208.60	210.20	211.40
Fixjo	78465	400	†S. E.	180	380.00	†S. E.	†S. E.
Fixok	78466	600	†S. E.	325	640.00	†S. E.	†S. E.
Fixtr	78467	800	†S. E.	400	970.00	†S. E.	†S. E.
Fixus	78468	1200	†S. E.	525	1280.00	†S. E.	†S. E.

Always specify catalog numbers of end plates wanted.

Prices do not include fuses.

†*(S. E.—Solid Ends) We will drill to order ends of solid-end boxes at 50c list each per hole.

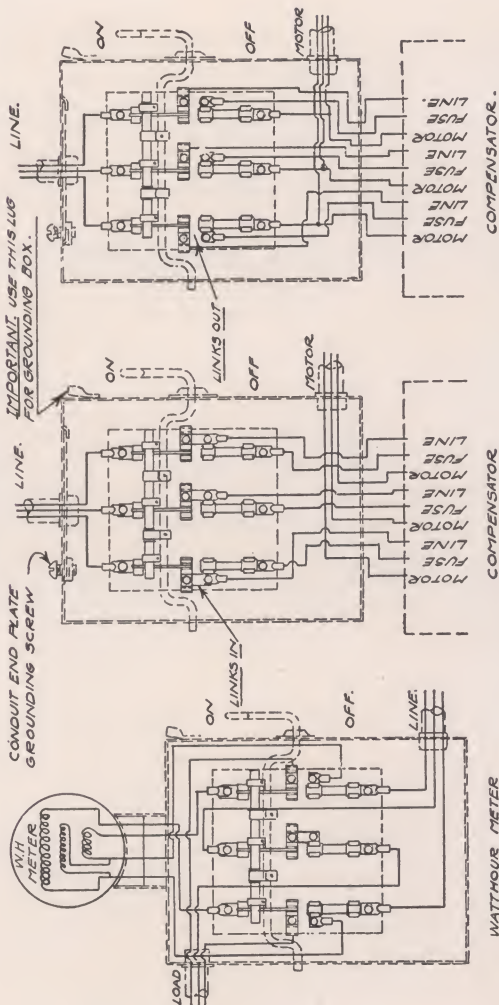
Where meter protective trim is used only one end plate is required.

Meter trim extra according to catalog number required,—see page 19.



Wiring Diagram for Meter Testing Type and Compensator Type Switches

Continued on page 14



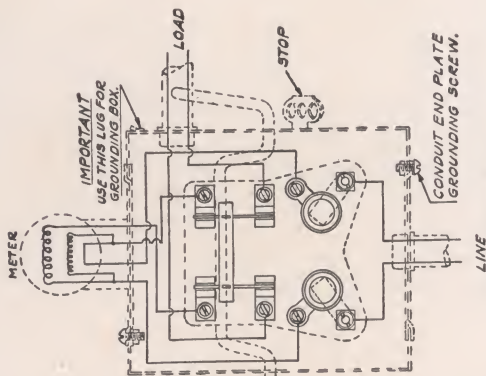
Fuses on Motor Side

Fuses on Line Side

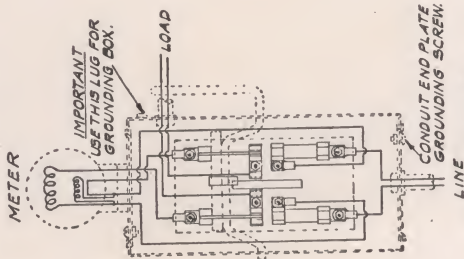
Meter Testing

Wiring Diagram for Meter Testing Type and Compensator Type Switches

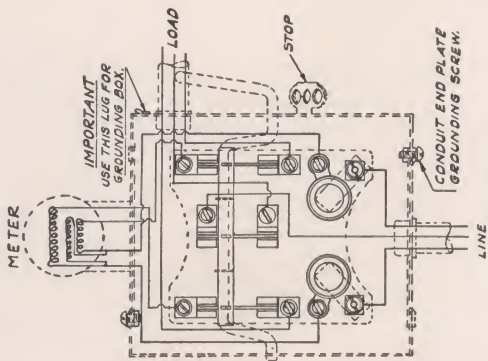
Continued from page 13



Meter Testing



Meter Testing



Meter Testing

SPECIAL SERVICE ENTRANCE TYPE SWITCHES

These are standard 125 volt switches mounted in special boxes to provide greater wiring space than do the standard boxes.

With this exception the 46311 is the same as the 56311; the 47311 the same as the 57311, and the 48311 the same as the 78311.

Single Throw—Fused Bottom

For Edison Plug Fuses			125 Volts TRIPLE POLE		List Prices Subject to Schedule B Discounts		
Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 2 Conduit End Plates	List Each with 2 Open Wiring End Plates
Sails	46311	30	Class A	5½	5.25	\$5.65	\$6.05
Safer	*47311	30	Class A	5½	5.25	5.65	6.05
Sagin	48311	30	Class A	5¼	5.25	5.65	7.55

Prices do not include fuses.

Always specify catalog numbers of end-plates wanted.

Where meter protecting trim is used only one end plate is required.

Meter trim extra according to catalog number required,—see page 19

*Made with solid unfused neutral.





No. 56353 Closed

No. 56353 Open

SQUARE D SAFETY SWITCHES INDUSTRIAL CONTROL TYPE

Single Throw—Fused Bottom

For N. E. C. S. Fuses			250 Volts DOUBLE POLE		List Prices Subject to Schedule A Discounts		
Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 2 Conduit End Plates	List Each with 2 Open Wiring End Plates
Acdaf	*56251	30	Class A	6	\$ 8.60	\$ 9.00	\$ 9.40
Acher	56252	60	Class B	11 $\frac{3}{4}$	20.80	22.00	22.80
Ackno	56253	100	Class B	21 $\frac{1}{4}$	34.80	36.00	36.80
Acorn	56254	200	Class C	41	54.40	56.00	57.20
Acrid	56255	400	Class C	80	98.40	100.00	101.20
Ascod	56256	600	†S. E.	100	150.00	†S. E.	†S. E.
Acsra	56257	800	†S. E.	125	240.00	†S. E.	†S. E.
Actor	56258	1200	†S. E.	190	370.00	†S. E.	†S. E.

TRIPLE POLE

Adama	*56351	30	Class A	8	13.60	14.00	14.40
Ader	56352	60	Class B	20	28.80	30.00	30.80
Adno	56353	100	Class B	30	42.80	44.00	44.80
Adore	56354	200	Class C	58	74.40	76.00	77.20
Adoma	56355	400	Class C	95	128.40	130.00	131.20
Adonb	56356	600	†S. E.	145	210.00	†S. E.	†S. E.
Adopc	56357	800	†S. E.	170	360.00	†S. E.	†S. E.
Adost	56358	1200	†S. E.	375	500.00	†S. E.	†S. E.

FOUR POLE

Afest	*56451	30	Class A	12	16.60	17.00	17.40
Aflue	56452	60	Class B	25	36.80	38.00	38.80
Aford	56453	100	Class B	38	62.80	64.00	64.80
Afraid	56454	200	Class C	77	102.40	104.00	105.20
Afront	56455	400	Class C	120	148.40	150.00	151.20
Afros	56456	600	†S. E.	170	320.00	†S. E.	†S. E.
Afsad	56457	800	†S. E.	310	480.00	†S. E.	†S. E.
Afseb	56458	1200	†S. E.	430	680.00	†S. E.	†S. E.

Always specify catalog numbers of end plates wanted.

Prices do not include fuses.

*Made without quick-break and with porcelain base. Where 30 ampere 250 volt switches are to be used under severe conditions we recommend severe service switches listed on page 19.

†(S. E.—Solid Ends) We will drill to order ends of solid-end boxes at 50c list each per hole.





No. 50251 Open

No. 50251 Closed

SQUARE D SAFETY SWITCHES INDUSTRIAL CONTROL TYPE—FOR SEVERE SERVICE

Occasionally an installation is of an extreme nature that calls for more substantial construction and heavier copper than is found in the ordinary 30 ampere 250 volt switch. Frequent operation under full rated load—"tickling the motor" (momentarily closing and re-opening switch to turn the motor partly over)—rough or abusive handling by employees, etc., represent conditions that our "severe service" switches have been designed to meet. These are 60 ampere switches with quick-break mechanism but with 30 ampere fuse spacings and clips.

Single Throw—Fused Bottom

For N. E. C. S. Fuses			250 Volts		List Prices Subject to Schedule A Discounts		
			DOUBLE POLE				
Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 2 Conduit Open Wiring End Plates	List Each with 2 Open Wiring End Plates
Anger	50251	30	Class B	11 3/4	\$18.80	\$20.00	\$20.80
TRIPLE POLE							
Angia	50351	30	Class B	20	26.80	28.00	28.80
FOUR POLE							
Angob	50451	30	Class B	25	34.80	36.00	36.80

INDUSTRIAL CONTROL TYPE

Single Throw—Fused Bottom—500 Volts A. C.

For N. E. C. S. Fuses			TRIPLE POLE		List Prices Subject to Schedule A Discounts		
					List Each List Each		
Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 2 Conduit Open Wiring End Plates	List Each with 2 Open Wiring End Plates
Again	56341	30	Class B	22	\$28.80	\$30.00	\$30.80
Agast	56342	60	Class B	23	30.80	32.00	32.80
Aglan	56343	100	Class B	32 1/4	46.80	48.00	48.80
Agapo	56344	200	Class C	....	78.40	80.00	81.20
Agrip	56345	400	*S. E.	....	152.00	*S. E.	*S. E.
Agsex	56346	600	*S. E.	....	230.00	*S. E.	*S. E.

200 Ampere capacity and over listed under 3 pole—600 volt switches.

FOUR POLE

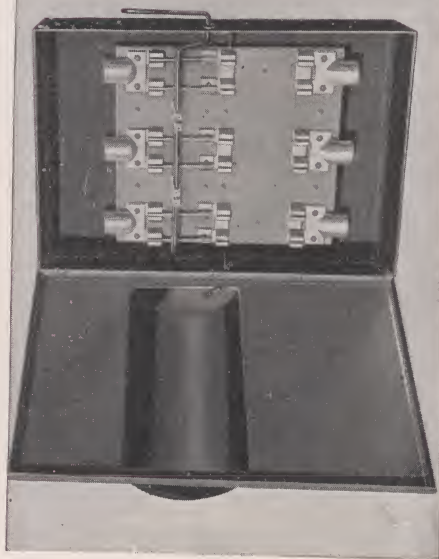
Ahcan	56441	30	Class B	32	36.80	38.00	38.80
Ahlans	56442	60	Class B	33	40.80	42.00	42.80
Ahmer	56443	100	Class C	56	68.40	70.00	71.20
Ahper	56444	200	Class C	....	106.40	108.00	109.20
Ahrig	56445	400	*S. E.	....	180.00	*S. E.	*S. E.
Ahsex	56446	600	*S. E.	....	340.00	*S. E.	*S. E.

800 Ampere capacity and over listed under 4 pole—600 volt switches.
Always specify catalog numbers of end-plates wanted.

Prices do not include fuses.

*(S. E.—Solid Ends) We will drill to order ends of solid-end boxes at 50c ist each per hole.





No. 56368 Open



No. 56368 Closed

SQUARE D SAFETY SWITCHES INDUSTRIAL CONTROL TYPE

Single Throw—Fused Bottom

For N. E. C. S. Fuses			600 Volts DOUBLE POLE		List Prices Subject to Schedule A Discounts		
Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 2 Conduit End Plates	List Each with 2 Open Wiring End Plates
Ajane	56261	30	Class B	21	\$ 28.80	\$ 30.00	\$ 30.80
Ajax	56262	60	Class B	21	30.80	32.00	32.80
Ajer	56263	100	Class C	42	48.40	50.00	51.20
Ajom	56264	200	Class C	62	88.40	90.00	91.20
Ajran	56265	400	†S. E.	135	200.00	†S. E.	†S. E.
Ajrba	56266	600	†S. E.	160	340.00	†S. E.	†S. E.
Ajrec	56267	800	†S. E.	175	480.00	†S. E.	†S. E.
Ajrdo	56268	1200	†S. E.	325	640.00	†S. E.	†S. E.

TRIPLE POLE

Alano	56361	30	Class B	30	\$ 42.80	\$ 44.00	\$ 44.80
Alarm	56362	60	Class B	30	46.80	48.00	48.80
Alerns	56363	100	Class C	67	68.40	70.00	71.20
Alone	56364	200	Class C	95	108.40	110.00	111.20
Alrane	56365	400	†S. E.	160	260.00	†S. E.	†S. E.
Alrbe	56366	600	†S. E.	315	480.00	†S. E.	†S. E.
Alred	56367	800	†S. E.	370	700.00	†S. E.	†S. E.
Alrhl	56368	1200	†S. E.	430	900.00	†S. E.	†S. E.

FOUR POLE

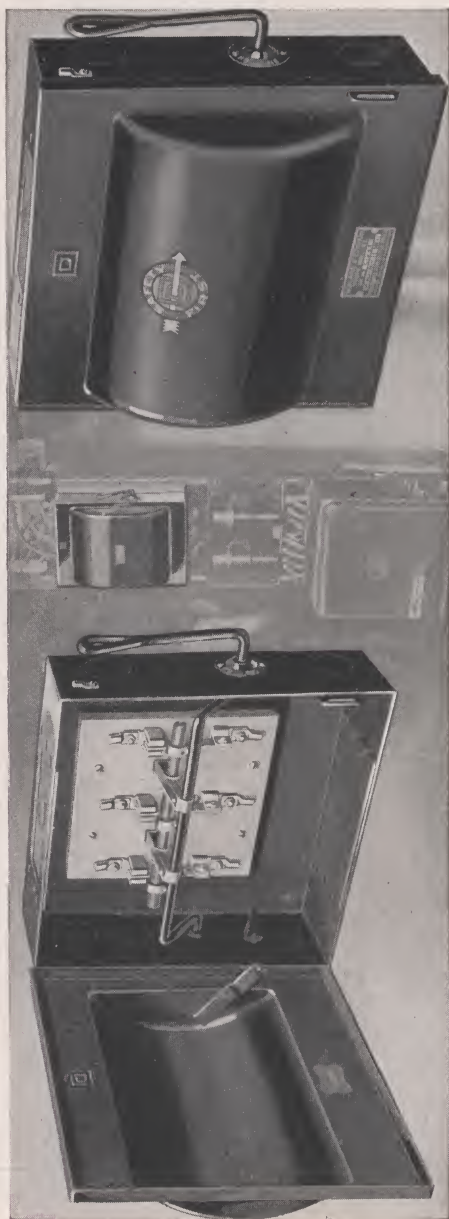
Amase	56461	30	Class B	37	\$52.80	\$54.00	\$54.80
Amera	56462	60	Class B	40	56.80	58.00	58.80
Amocc	56463	100	Class C	83	84.40	86.00	87.20
Amran	56464	200	Class C	120	168.40	170.00	171.20
Amred	56465	400	†S. E.	180	350.00	†S. E.	†S. E.
Amrhe	56466	600	†S. E.	325	600.00	†S. E.	†S. E.
Amrif	56467	800	†S. E.	400	900.00	†S. E.	†S. E.
Amrko	56468	1200	†S. E.	525	1200.00	†S. E.	†S. E.

Always specify catalog numbers of end plates wanted.

Prices do not include fuses.

†(S. E.—Solid Ends) We will drill to order ends of solid-end boxes at 50c list each per hole.





No. 51342 Closed

No. 51342 Open

SQUARE D SAFETY SWITCHES INDUSTRIAL CONTROL TYPE

Single Throw—Not Fused
250 Volts D. C. and 500 Volts A. C.

List Prices Subject to
Schedule A Discounts

Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	DOUBLE POLE		
					List Each without End Plates	List Each with 2 Conduit End Plates	List Each with 2 Open Wiring End Plates
Apach	*51251	30	Class A	5	\$ 7.60	\$ 8.00	\$8.40
Apade	51242	30 & 60	Class B	11	18.80	20.00	20.80
Apaer	51243	100	Class B	13	28.80	30.00	30.80
Apaft	51244	200	Class B	23	42.80	44.00	44.80
Apago	51245	400	Class C	39	76.40	78.00	79.20
Apahl	51246	600	†S. E.	60	120.00	†S. E.	†S. E.
Apaid	51247	800	†S. E.	80	200.00	†S. E.	†S. E.
Apajx	51248	1200	†S. E.	110	320.00	†S. E.	†S. E.
TRIPLE POLE							
Apbac	*51351	30	Class A	5	12.60	13.00	13.40
Apbce	51342	30 & 60	Class B	14	24.80	26.00	26.80
Apbet	51343	100	Class B	17	38.80	40.00	40.80
Apbgr	51344	200	Class B	34	54.80	56.00	56.80
Apbfn	51345	400	Class C	61	108.40	110.00	111.20
Apbol	51346	600	†S. E.	90	160.00	†S. E.	†S. E.
Apbli	51347	800	†S. E.	120	350.00	†S. E.	†S. E.
Apbro	51348	1200	†S. E.	160	480.00	†S. E.	†S. E.
FOUR POLE							
Apcat	*51451	30	Class A	10	15.60	16.00	16.40
Apcda	51442	30 & 60	Class B	17	32.80	34.00	34.80
Apces	51443	100	Class B	20	48.80	50.00	50.80
Apchl	51444	200	Class C	50	68.40	70.00	71.20
Apcib	51445	400	Class C	90	140.00	141.60	142.80
Apckm	51446	600	†S. E.	110	220.00	†S. E.	†S. E.
Apcin	51447	800	†S. E.	145	400.00	†S. E.	†S. E.
Apcmb	51448	1200	†S. E.	255	600.00	†S. E.	†S. E.

Always specify catalog numbers on end plates wanted.

Prices do not include fuses.

*250 Volts only—porcelain base—not made with quick-break attachment.

†(S. E.—Solid Ends) We will drill to order ends of solid-end boxes at 50c list each per hole.





No. 51263 Closed

No. 51263 Open

SQUARE D SAFETY SWITCHES INDUSTRIAL CONTROL TYPE

Single Throw—Not Fused

600 Volts DOUBLE POLE

List Prices Subject to Schedule A Discounts

Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 2 Conduit Open End Plates	List Each with 2 Wiring End Plates
Apfbo	51262	30 & 60	Class B	13	\$29.80	\$31.00	\$31.80
Apfct	51263	100	Class B	20	48.40	50.00	50.40
Apfda	51264	200	Class C	33	74.40	76.00	77.20
Apfel	51265	400	†S. E.	62	160.00	†S. E.	†S. E.
Apfin	51266	600	†S. E.	85	240.00	†S. E.	†S. E.
Apflm	51267	800	†S. E.	86	360.00	†S. E.	†S. E.
Apfor	51268	1200	†S. E.	125	500.00	†S. E.	†S. E.

TRIPLE POLE

Apgba	51362	30 & 60	Class B	23	40.40	42.00	42.40
Apgde	51363	100	Class C	26	62.40	64.00	65.20
Apgex	51364	200	Class C	56	88.40	90.00	91.20
Apgho	51365	400	†S. E.	90	200.00	†S. E.	†S. E.
Apgic	51366	600	†S. E.	130	360.00	†S. E.	†S. E.
Apgim	51367	800	†S. E.	130	600.00	†S. E.	†S. E.
Apgos	51368	1200	†S. E.	250	800.00	†S. E.	†S. E.

FOUR POLE

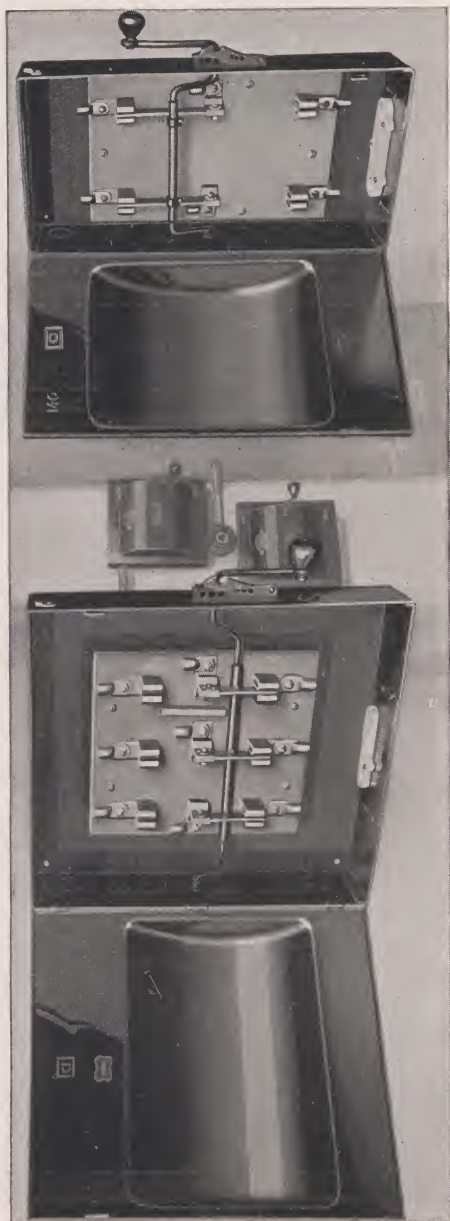
Aphbc	51462	30 & 60	Class B	25	50.40	52.00	52.40
Aphci	51463	100	Class C	44	78.40	80.00	81.20
Aphdo	51464	200	Class C	65	148.40	150.00	151.20
Aphex	51465	400	†S. E.	125	270.00	†S. E.	†S. E.
Aphir	51466	600	†S. E.	230	440.00	†S. E.	†S. E.
Aphie	51467	800	†S. E.	260	720.00	†S. E.	†S. E.
Aphor	51468	1200	†S. E.	300	960.00	†S. E.	†S. E.

Always specify catalog numbers of end plates wanted.

Prices do not include fuses.

†(S. E.—Solid Ends) We will drill to order ends of solid-end boxes at 50 list each per hole.





No. 52343 Open

No. 52263 Open

SQUARE D SAFETY SWITCHES INDUSTRIAL CONTROL TYPE

Double Throw—Not Fused

250 Volts D. C. and 500 Volts A. C.

Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Prices Subject to Schedule A Discounts		
					DOUBLE POLE	List Each without End Plates	List Each with 2 Conduit Open Wiring End Plates
Arace	*52251	30	Class A	11	\$21.60	\$22.00	\$22.40
Aradb	52242	30 & 60	Class B	14	24.80	26.00	26.80
Araed	52243	100	Class B	16	38.80	40.00	40.80
Arafo	52244	200	Class B	30	58.80	60.00	60.80
Aragi	52245	400	Class C	52	106.40	108.00	109.20
Araho	52246	600	†S. E.	90	180.00	†S. E.	†S. E.
Araim	52247	800	†S. E.	110	270.00	†S. E.	†S. E.
Arajn	52248	1200	†S. E.	260	360.00	†S. E.	†S. E.

TRIPLE POLE

Arbac	*52351	30	Class A	16	27.60	28.00	28.40
Arbce	52342	30 & 60	Class B	15 1/2	36.80	38.00	38.80
Arbda	52343	100	Class B	23	48.80	50.00	50.80
Arbeh	52344	200	Class C	56	88.40	90.00	91.20
Arbix	52345	400	Class C	90	148.40	150.00	151.20
Arbio	52346	600	†S. E.	145	250.00	†S. E.	†S. E.
Arbor	52347	800	†S. E.	155	400.00	†S. E.	†S. E.
Arbmt	52348	1200	†S. E.	400	600.00	†S. E.	†S. E.

FOUR POLE

Arcad	*52451	30	Class A	17	31.60	32.00	32.40
Arcbo	52442	30 & 60	Class B	21	48.80	50.00	50.80
Arcdi	52443	100	Class B	27	72.80	74.00	74.80
Arcda	52444	200	Class C	65	118.80	120.00	121.60
Arcbe	52445	400	Class C	110	198.40	200.00	201.20
Arcib	52446	600	†S. E.	175	320.00	†S. E.	†S. E.
Arcif	52447	800	†S. E.	260	550.00	†S. E.	†S. E.
Arcos	52448	1200	†S. E.	500	800.00	†S. E.	†S. E.

Always specify catalog numbers of end plates wanted.

Prices do not include fuses.

Double throw switches not made with quick break attachment.

*250 Volts only.

†(S. E.—Solid Ends) We will drill to order ends of solid end boxes at 50c list each per hole.



SQUARE D SAFETY SWITCHES INDUSTRIAL CONTROL TYPE

Double Throw—Not Fused

Code Word	Catalog Number	Amps.	600 Volts DOUBLE POLE		List Prices Subject to Schedule A Discounts		
			End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 2 Conduit End Plates	List Each with 2 Open Wiring End Plates
Arebd	52262	30 & 60	Class B	19	\$48.80	\$50.00	\$50.80
Areca	52263	100	Class C	26	80.40	82.00	83.20
Arede	52264	200	Class C	52	128.40	130.00	131.20
Arefi	52265	400	†S. E.	90	220.00	†S. E.	†S. E.
Aregö	52266	600	†S. E.	140	400.00	†S. E.	†S. E.
Arehl	52267	800	†S. E.	143	600.00	†S. E.	†S. E.
Areim	52268	1200	†S. E.	315	760.00	†S. E.	†S. E.

TRIPLE POLE

Arfba	52362	30 & 60	Class B	27	\$ 78.40	\$ 79.60	\$ 80.40
Arfco	52363	100	Class C	41	114.40	116.00	117.20
Arfdl	52364	200	Class C	80	198.40	200.00	201.20
Arfem	52365	400	†S. E.	130	320.00	†S. E.	†S. E.
Arfgd	52366	600	†S. E.	200	550.00	†S. E.	†S. E.
Arfhi	52367	800	†S. E.	270	800.00	†S. E.	†S. E.
Arfis	52368	1200	†S. E.	490	1100.00	†S. E.	†S. E.

FOUR POLE

Argbi	52462	30 & 60	Class B	38	\$112.40	\$113.60	\$114.40
Argada	52463	100	Class C	55	158.40	160.00	161.20
Arges	52464	200	†S. E.	100	250.00	†S. E.	†S. E.
Arghm	52465	400	†S. E.	180	420.00	†S. E.	†S. E.
Argio	52466	600	†S. E.	350	650.00	†S. E.	†S. E.
Argod	52467	800	†S. E.	380	900.00	†S. E.	†S. E.
Argke	52468	1200	†S. E.	600	1200.00	†S. E.	†S. E.

Always specify catalog number of end plates wanted.

Prices do not include fuses.

Double throw switches not made with quick-break attachment.

†(S. E.—Solid Ends) We will drill to order ends of solid-end boxes at 50c list each per hole.



SQUARE D SAFETY SWITCHES

The starting load of a motor is approximately seven times its running load. Consequently if the starting switch is properly fused to carry the starting load, the motor is practically without fuse protection while running. Conversely, fuses that will afford the proper protection while the motor is running, will not carry the starting load.

The Square D Motor Starter, which has been designed for starting A. C. motors, has non-fused starting position while the running side is arranged for fuses. To start a motor the switch is first thrown into the non-fused starting position and as the motor speeds up and the starting resistance is overcome, the switch is thrown over into the fused running side. A quick change from the one position to the other is necessitated by a steel latch inside the cabinet which prevents the switch being thrown directly from "off" into the "running" position.

The three pole motor starter can be furnished with star-delta starting connections—see catalog numbers listed below and on page 31 and when so used a separate main line switch must be installed ahead of the starting switch in accordance with the National Electrical Code.

MOTOR STARTERS

250 Volts

For N. E. C. S. Fuses At Top			Straight Connected		List Prices Subject to		
			DOUBLE POLE		Schedule A Discounts		
Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 2 Conduit End Plates	List Each with 2 Open Wiring End Plates
Asaac	66251	30	Class A	13	\$20.00	\$20.40	\$20.80
TRIPLE POLE							
Asabo	66351	30	Class A	14½	23.60	24.00	24.40
Asaer	66352	60	Class B	27	44.80	46.00	46.80
Asafe	66353	100	Class B	30	70.80	72.00	72.80
FOUR POLE							
Asagu	66451	30	Class A	17	33.60	34.00	34.40
Asagy	66452	60	Class B	27	58.80	60.00	60.80
Star Delta Connected							
TRIPLE POLE							
Asban	65351	30	Class A	14½	23.60	24.00	24.40
Asbdo	65352	60	Class B	27	44.80	*46.00	*46.80
Asbha	65353	100	Class B	30	70.80	*72.00	*73.60

Slotted fibre bushed end plates are required for bottoms of star-delta connected motor starters so that extra leads may pass through easily, see pages 40 and 41.

Always specify catalog numbers of end plates wanted.

Prices do not include fuses.

*Includes one slotted fibre-bushed end plate.





No. 66441 Closed

No. 66441 Open

MOTOR STARTERS

500 Volts

For N. E. C. S. Fuses at Top			Straight Connected TRIPLE POLE		List Prices Subject to Schedule A Discounts		
Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 2 Conduit End Plates	List Each with 2 Open Wiring End Plates
Asaca	†66341	30	Class B	27	\$ 38.80	\$ 40.00	\$ 40.80
Asadn	†66342	60	Class B	27 ½	48.80	50.00	50.80
FOUR POLE							
Asano	66441	30	Class B	31	46.80	48.00	48.80
Star Delta Connected							
TRIPLE POLE							
Asbem	65341	30	Class B	27	38.80	*40.00	*40.80
Asbid	65342	60	Class B	27 ½	48.80	*50.00	*50.80

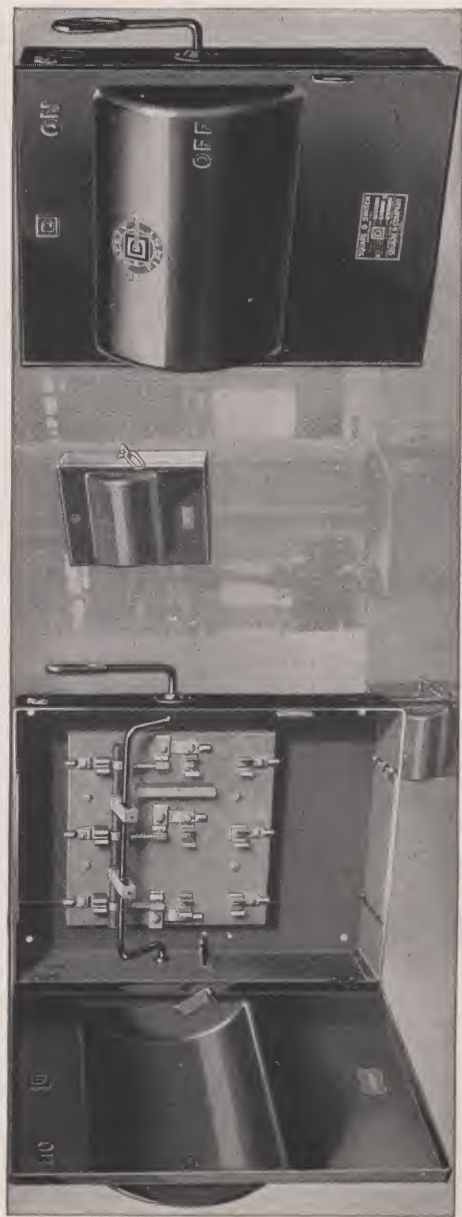
Slotted fibre bushed end plates are required for bottoms of star delta connected motor starters so that extra leads may pass through easily, see page 41

Always specify catalog numbers of end-plates wanted. Prices do not include fuses.

*Includes one slotted fibre-bushed end plate which is required for bottoms of star-delta connected Motor Starters.

†Suitable for 550 volt A. C. work.





No. 78352 Open

No. 78352 Closed

SQUARE D SAFETY SWITCHES COMPENSATOR TYPE

Superseding 58000 Series

Principal or suppliers regulations require, as a rule, that each induction motor, of larger than 5 horse power, be started by a compensator which is practically an auto-transformer having two sets of leads—one set supplying a voltage to the motor for starting and the other, full line voltage for running. When incoming service it is necessary that a main switch be installed ahead of compensator, making it possible to cut off all power through the latter. When this switch open, contact renewals, changing of oil, or repairs on the compensator may be made in safety.

When using a Square D Compensator Type switch, the dangerous installation of an unfused open switch and separate exposed cutout is avoided. Switch cutouts are combined within a stamped steel box and the switch is operated without danger of shock or burn, by the handle outside the box.

This compensator type is universal in its application, being adapted for use on any make of compensator. It is made the same as our standard fused switch (Industrial Control Type), except that removable connecting links are added between switch hinge jaws and upper fuse clips and that solder lugs are attached to both hinge jaws and upper fuse clips for connections to compensator as noted in wiring diagrams.

Where overload relays are employed on compensator installations, unfused switches should be used.

N. E. C. S. Fuses			250 Volts TRIPLE POLE		List Prices Subject to Schedule A Discounts	
Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	List Each with 1 Conduit and 1 Slotted End Plate	List Each with 1 Open Wiring and 1 Slotted End Plate
*78351	30	Class B	22½	\$ 28.20	\$ 30.00	\$ 30.40
78352	60	Class B	23	32.20	34.00	34.40
78353	100	Class B	33	50.20	52.00	52.40
78354	200	Class C	64	81.60	84.00	84.60
78355	400	Class C	95	167.60	170.00	170.60
78356	600	†S. E.	145	240.00	†S. E.	†S. E.
78357	800	†S. E.	170	400.00	†S. E.	†S. E.
78358	1200	†S. E.	375	550.00	†S. E.	†S. E.

			FOUR POLE			
*78451	30	Class B	24	\$ 38.20	\$ 40.00	\$ 40.40
78452	60	Class B	26	44.20	46.00	46.40
78453	100	Class C	55	69.60	72.00	72.60
78454	200	Class C	77	121.60	124.00	124.60
78455	400	Class C	120	177.60	180.00	180.60
78456	600	†S. E.	170	360.00	†S. E.	†S. E.
78457	800	†S. E.	310	530.00	†S. E.	†S. E.
78458	1200	†S. E.	430	750.00	†S. E.	†S. E.

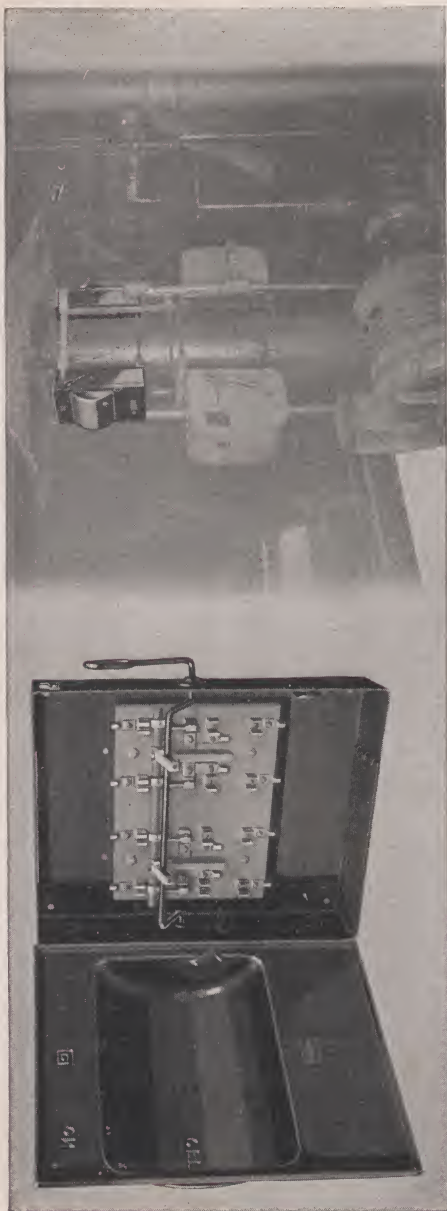
NOTE: Slotted fibre-bushed end plates are required for bottoms of compensator type switches, see pages 40, 41 and 42.

Prices specify catalog numbers of end plates wanted. Prices do not include

switch made with 60 ampere blades and quick-break mechanism but with 30 ampere fuse spacings.

†S. E.—Solid Ends) We will drill to order ends of solid end boxes at 50¢ each per hole.





No. 78452 Open

SQUARE D SAFETY SWITCHES COMPENSATOR TYPE

Superseding 58000 Series

For N. E. C. S. Fuses			500 Volts A. C. TRIPLE POLE		List Prices Subject to Schedule A Discounts		
					List Each with 1	List Each with 1	
Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	Conduit Open and 1 Slotted End Plate	Wiring and 1 Slotted End Plate
Feble	78341	30	Class B	25	\$ 34.20	\$ 36.00	\$ 36.40
Febor	78342	60	Class B	26	38.20	40.00	40.40
Febus	78343	100	Class B	35	56.20	58.00	58.40
Fecil	78344	200	Class C	65	\$ 85.60	\$ 88.00	\$ 88.60
Fecop	78345	400	†S. E.	135	180.00	†S. E.	†S. E.
Fecur	78346	600	†S. E.	150	260.00	†S. E.	†S. E.

800 Amperes capacity and over listed under 3 pole 600 volt switches.

FOUR POLE

Fedac	78441	30	Class B	32	44.20	46.00	46.40
Feder	78442	60	Class B	36	50.20	52.00	52.40
Fedig	78443	100	Class C	57	77.60	80.00	80.60
Fedop	78444	200	Class C	80	115.60	118.00	118.60
Fenes	78445	400	†S. E.	160	200.00	†S. E.	†S. E.
Fepos	78446	600	†S. E.	245	370.00	†S. E.	†S. E.

800 amperes capacity and over listed under 4 pole 600 volt switches.

For N. E. C. S. Fuses			600 Volts TRIPLE POLE		List Prices Subject to Schedule A Discounts		
					List Each with 1	List Each with 1	
Code Word	Catalog Number	Amps.	End Plates to Fit	Weight Lbs.	List Each without End Plates	Conduit Open and 1 Slotted End Plate	Wiring and 1 Slotted End Plate
Fines	78361	30	Class B	32	\$ 46.20	\$ 48.00	\$ 48.40
Finger	78362	60	Class B	33	48.20	50.00	50.40
Fings	78363	100	Class C	69	81.60	84.00	84.60
Finis	78364	200	Class C	98	121.60	124.00	124.60
Finor	78365	400	†S. E.	160	280.00	†S. E.	†S. E.
Finre	78366	600	†S. E.	315	530.00	†S. E.	†S. E.
Finsu	78367	800	†S. E.	370	777.00	†S. E.	†S. E.
Finul	78368	1200	†S. E.	430	1000.00	†S. E.	†S. E.

FOUR POLE

Fixar	78461	30	Class B	39	60.20	62.00	\$ 62.40
Fixeg	78462	60	Class B	40	66.20	68.00	68.40
Fixia	78463	100	Class C	85	100.60	103.00	103.60
Fixin	78464	200	Class C	120	208.60	211.00	211.60
Fixjo	78465	400	†S. E.	180	380.00	†S. E.	†S. E.
Fixok	78466	600	†S. E.	325	640.00	†S. E.	†S. E.
Fixtr	78467	800	†S. E.	400	970.00	†S. E.	†S. E.
Fixus	78468	1200	†S. E.	525	1280.00	†S. E.	†S. E.

NOTE: Slotted fibre-bushed end plates are required for bottoms of compensator type switches, see pages 40, 41 and 42.

Always specify catalog numbers of end plates wanted.

Prices do not include fuses.

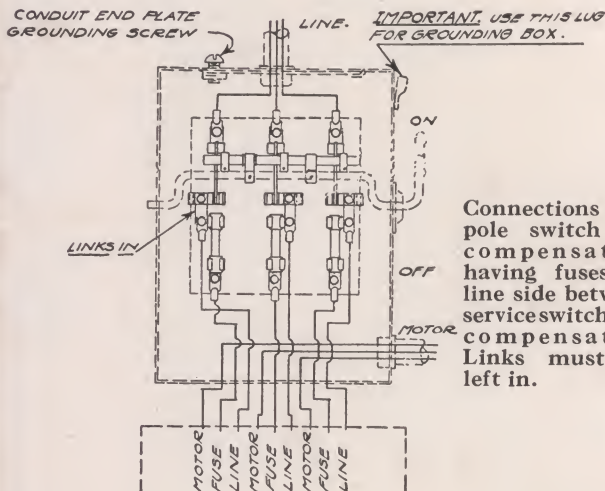
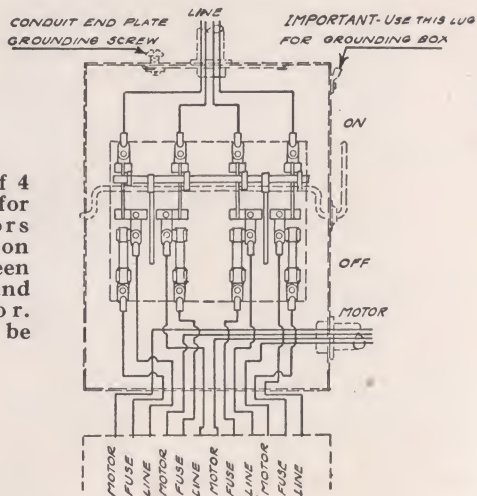
†(S. E.—Solid Ends) We will drill to order ends of solid-end boxes at 50c list each per hole.



SQUARE D SAFETY SWITCHES

Compensator Type Superseding 58000 Series Wiring Diagrams

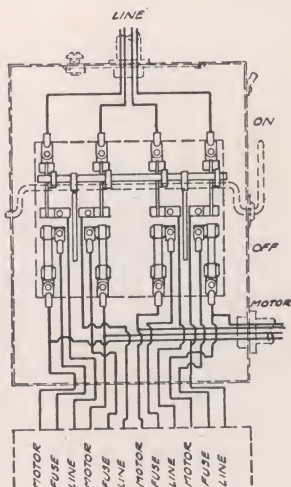
Connections of 4 pole switch for compensators having fuses on line side between serviceswitch and compensator. Links must be left in.



Connections of 3 pole switch for compensators having fuses on line side between serviceswitch and compensator. Links must be left in.

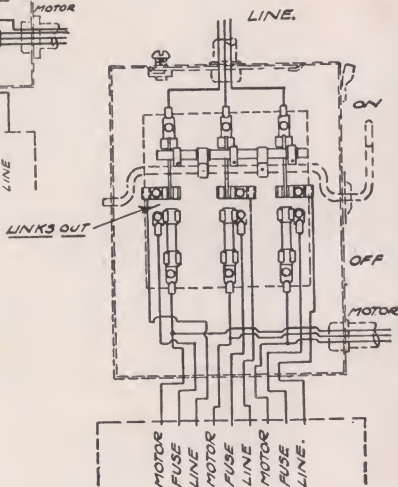
COMPENSATOR TYPE SQUARE D SAFETY SWITCHES

Compensator Type Superseding 58000 Series Wiring Diagrams



Connections of 3 pole switch for compensators having fuses on motor side between compensator and motor. Links must be taken out.

Connections of 4 pole switch for compensators having fuses on motor side between compensator and motor. Links must be taken out.



NOTE—Fuses are dead on these switches when switch is open if wired according to diagram.



No. 5001 Open with No. 5021 Plug Inserted

No. 5001 Closed

SQUARE D PLUG RECEPTACLES AND ATTACHMENT PLUGS

This combination provides for the use of portable electrical units wherever it is more practical to move the machine than the work. The receptacle may be mounted on post, wall or other place where it is easily accessible. Plug is attached to portable machine by means of a flexible cord and electrical connection is obtained as desired by merely inserting plug in opening in receptacle.

All live parts of the receptacle are contained in sheet steel box with corners electrically welded, and provided with a hasp so that it may be locked or sealed. Fuses and terminals are mounted on two porcelains which, in case of accident or breakage, may be easily removed and replaced. Receptacle may be fused up to 30 amperes, 250 volts.

The attachment plug is of the polarity type, shaped so that it cannot be reversed when inserting in receptacle. Cable or flexible cord passes through handle and is fastened to terminals at either side of the plug by means of contact screws. The handle is provided with a guard so that the operator's hand may not slide against the terminals when inserting plug in receptacle.

List Prices Subject to Schedule A Discounts

Code	Catalog		Poles	Amps.	Volts	Weight	List Price
Word	No.					Lbs.	Each
Pomar	5001	Receptacle	2	30	250	4 1/4	\$7.00
Potah	5021	Attachment Plug	2	30	250	1/4	2.50

TEST PLUGS AND SOCKETS

Additions of new equipment and changing power requirements call for more or less frequent load tests of motors, in many plants. A portable ammeter is used for the purpose and connection is generally obtained by hooking wires over the switch blades or by means of clips which can be snapped onto the switch blades or terminals. Either represents a dangerous and unsatisfactory practice. In Square D Safety Switches, load testing, always possible by merely opening the switch door, may be facilitated by the use of our test plugs and sockets.

The brass sockets screw onto the terminal screws of the switch and are intended to be left permanently in place, taking the place of the regular solder lug nuts. The plug is made of a heavy brass body covered with a fibre sleeve and provided at the upper end with a solder plug which screws into the body of the plug proper. This may be readily removed for soldering in the test lead of the ammeter.

To make a test, ammeter connection is obtained by merely plugging in on the switch, after which reading can be taken by opening the switch.

List Prices Subject to Schedule A Discounts

Code	Catalog		Amperes	Carton	Standard	List Price
Word	No.			Quantity	Package	Each
Teace	70123	Test Plug	30-100	10	100	\$4.00
Teaks	70124	Test Plug	200	5	50	6.00
Teals	70126	Test Plug	400-600	1	5	10.00
Tefals	70665	Test Socket	400	5	25	2.50
Tefan	70666	Test Socket	600	5	25	2.50
Tefar	70632	Test Socket	30-60	50	500	.80
Tefko	70633	Test Socket	100	50	500	.80
Teful	70644	Test Socket	200	25	250	1.20



DETACHABLE AND INTERCHANGEABLE END PLATES FOR SQUARE D SAFETY SWITCHES

List Prices Subject to Schedule A Discounts

End plates are for use in the ends of Square D Safety Switch boxes. The knockouts in the conduit end plates and the holes in the open wiring end plates are of varying size and number so that the switches may be easily adapted to any system of wiring.

Ends of boxes are slotted to receive the plates and conduit end plates are secured in place by machine screw which insures perfect ground connection between switch box and end-plate and conduit open wiring end plates have porcelain outlet covers.

Class C End Plates are for use with Class C Boxes. Class B End Plates are for use with Class B Boxes. Class A End Plates are for use with Class A Boxes.



Catalog No. 18300

Catalog No. 18313

Catalog No. 18331

CLASS A CONDUIT END PLATES

Code Word	Cat. No.	Description	Car-ton Qty.	Stand-ard Pkg.	Wt. Lbs. Carton Quantity	List Each
Cado	18300	Blank	10	100	2 1/2	\$0.20
Cafeo	18312	1 Knockout for 3/4" Conduit	10	100	2 1/2	.20
Cage	18313	1 Knockout for 1" Conduit	10	100	2 1/2	.20
Cagin	18314	1 Knockout for 1 1/4" Conduit	10	100	2 1/2	.20
Cagol	18318	For Connecting Branch Cut-out Box to Switch box	10	100	1 1/2	.20
Cahn	18322	2 Knockouts for 3/4" Conduit	10	100	2 1/2	.20
Caine	18323	2 Knockouts for 1" Conduit	10	100	2 1/2	.20
Caklo	18331	3 Knockouts for 1/2" Conduit	10	100	2 1/2	.20



Catalog No. 19322

Catalog No. 19331

Catalog No. 19342

CLASS A OPEN WIRING END PLATES WITH PORCELAIN COVERS

Code Word	Cat. No.	Holes in Porcelain No.	Size	Car-ton Qty.	Stand-ard Pkg.	Wt. Lbs. Carton Quantity	List Each
Caler	19321	2	1 1/2"	10	100	3	\$0.40
Cameo	19322	2	1 1/2"	10	100	3	.40
Cargn	19331	3	1 1/2"	10	100	3	.40
Caste	19332	3	1 1/2"	10	100	3	.40
Cater	19341	4	1 1/2"	10	100	3	.40
Cawle	19342	4	1 1/2"	10	100	3	.40
Caxan	19351	5	1 1/2"	10	100	3	.40
Caxer	19352	5	1 1/2"	10	100	3	.40
Caxob	19382	Slotted—Fibre-bushed		10	100	3	.60

Class A End Plates are 4 1/2 inches long by 3 inches wide.

Catalog No. 19382 is for use in bottoms of star-delta connected motor starters and compensator switches.

DETACHABLE AND INTERCHANGEABLE END PLATES FOR SQUARE D SAFETY SWITCHES

List Prices Subject to Schedule A Discounts

CLASS B CONDUIT END PLATES

Code Word	Cat. No.	Description	Car- ton Qty.	Stand- ard Pkg.	Wt. Lbs. Carton Quantity	List Each
Cedar	18400	Blank	5	50	3 1/4	\$0.60
Cede	18412	1 Knockout for 3/4" Conduit	5	50	3 1/4	.60
Cedoh	18413	1 Knockout for 1" Conduit	5	50	3 1/4	.60
Cedome	18414	1 Knockout for 1 1/4" Conduit	5	50	3 1/4	.60
Cedro	18415	1 Knockout for 1 1/2" Conduit	5	50	3 1/4	.60
Cedst	18416	1 Knockout for 2" Conduit	5	50	3 1/4	.60
Cefans	18423	2 Knockouts for 1" Conduit	5	50	3 1/4	.60
Cefat	18424	2 Knockouts for 1 1/4" Conduit	5	50	3 1/4	.60
Cefda	18425	2 Knockouts for 1 1/2" Conduit	5	50	3 1/4	.60
Cefean	18431	3 Knockouts for 1/2" Conduit	5	50	3 1/4	.60
Ceffo	18432	3 Knockouts for 3/4" Conduit	5	50	3 1/4	.60
Cefga	18483	Adapter End Plate	5	50	1 1/2	.60

CLASS B OPEN WIRING END PLATES

Code Word	Cat. No.	Holes in Porcelain No.	Size	Car- ton Qty.	Stand- ard Pkg.	Wt. Lbs. Carton Quantity	List Each
Cefha	19422	2	1 1/2"	5	50	4	\$1.00
Cefjet	19423	2	1 1/2"	5	50	4	1.00
Cefkl	19424	2	1 1/2"	5	50	4	1.00
Cefmo	19432	3	1 1/2"	5	50	4	1.00
Cefnah	19433	3	1 1/2"	5	50	4	1.00
Cefner	19434	3	1 1/2"	5	50	4	1.00
Cefse	19442	4	1 1/2"	5	50	4	1.00
Ceftar	19443	4	1 1/2"	5	50	4	1.00
Cefya	19444	4	1 1/2"	5	50	4	1.00
Cegar	19452	5	1 1/2"	5	50	4	1.00
Ceghas	19493	1 4	1 1/2" 1 1/2"	5	50	4	1.00
Cegle	19494	1 4	1 1/2" 1 1/2"	5	50	4	1.00
Cegin	19484	Slotted—Fibre-bushed		10	50	4	1.20

Class B End Plates are 6 3/4 inches long by 4 inches wide.

Catalog No. 18483 is an Adapter End Plate for use in reducing the size of openings in ends of Class B Boxes (4 inches deep), so that any of the meter protective trims listed on page 48 and 49 may be used with Class B Boxes.

Catalog No. 19484 is for use in bottoms of star-delta connected motor starters and compensator switches.



DETACHABLE AND INTERCHANGEABLE END PLATES FOR SQUARE D SAFETY SWITCHES

List Prices Subject to Schedule A Discounts

CLASS C CONDUIT END PLATES

Code Word	Cat. No.	Description	Car- ton Qty.	Stand- ard Pkg.	Wt. Lbs. Carton Quantity	List Each
Cdane	18500	Blank	5	25	4 $\frac{3}{4}$	\$0.80
Cdfal	18515	1 Knockout for 1 $\frac{1}{2}$ " Conduit	5	25	4 $\frac{3}{4}$	.80
Cdmar	18516	1 Knockout for 2" Conduit	5	25	4 $\frac{3}{4}$	.80
Cdmes	18517	1 Knockout for 2 $\frac{1}{2}$ " Conduit	5	25	4 $\frac{3}{4}$	.80
Cdnah	18525	2 Knockouts for 1 $\frac{1}{2}$ " Conduit	5	25	4 $\frac{3}{4}$	.80
Cdnet	18583	Adapter End Plate	5	25	3 $\frac{3}{4}$	.80

CLASS C OPEN WIRING END PLATES WITH PORCELAIN COVERS

Code Word	Cat. No.	Holes in Porcelain No.	Size	Car- ton Qty.	Stand- ard Pkg.	Wt. Lbs. Carton Quantity	List Each
Cadnos	19524	2	$\frac{3}{4}$ "	5	25	5 $\frac{1}{2}$	\$1.40
Cdple	19525	2	1 $\frac{1}{4}$ "	5	25	7	1.40
Cdram	19534	3	$\frac{3}{4}$ "	5	25	5 $\frac{1}{2}$	1.40
Cdson	19535	3	$\frac{3}{4}$ "	5	25	7	1.40
Cdyah	19544	4	$\frac{3}{4}$ "	5	25	5 $\frac{1}{2}$	1.40
Cdyer	19594	{ 1 4 }	{ $\frac{1}{8}$ " $\frac{3}{32}$ " $\frac{3}{4}$ " }	5	25	5 $\frac{1}{2}$	1.40
Cdyon	19586	Slotted—Fibre Bushed		15	30	6	1.60

Cat. No. 18583 is similar in design to, but larger than Cat No. 18483, adapter End Plate and is used only in connection with Class C Boxes five inches deep.

Cat. No. 19586 Slotted Fibre Bushed End Plate is for bottoms of compensator switches.



STEEL KNOCKOUT SEALS FOR CLOSING UNUSED CONDUIT HOLES

List Prices Subject to Schedule C Discounts



Steel
Knockout Seal

Code Word	Catalog Number	Diameter Opening Inches	To Slip Conduit Size Inches	Weight Lbs. Std. Package	List Per 100
Halom	1901	$\frac{7}{8}$ "	$\frac{1}{2}$ "	$5\frac{1}{2}$ "	\$ 7.00
Hamer	1902	$1\frac{1}{4}$ "	$\frac{3}{4}$ "	7"	10.00
Hanah	1903	$1\frac{3}{4}$ "	1"	$9\frac{1}{2}$ "	13.00

Seals are made of 16 Ga. sheet steel and furnished with cotter pin.
Standard Package 200. Carton Quantity 100

DETACHABLE AND INTERCHANGEABLE END PLATES For Square D Safety Switches



Catalog No. 18414



Catalog No. 18424



Catalog No. 18483



Catalog No. 19433



Catalog No. 19452



Catalog No. 19484



Catalog No. 18500



Catalog No. 18516



Catalog No. 18517



Catalog No. 19524



Catalog No. 19535



Catalog No. 19594

METER PROTECTIVE TRIMS FOR SQUARE D SWITCHES TO ENCLOSE WATT HOUR METER CONNECTIONS

Interchangeable With End Plates

List Prices Subject to Schedule A Discounts

Square D Meter Protective Trims are used primarily with Class A Boxes (3 inches deep). Class B Boxes (4 inches deep) require the use of Adapter End Plates, Catalog No. 18483, with the meter trim. Class C Boxes (5 inches deep) require Adapter End Plate, Catalog No. 18583, with the meter trim.

"Top" trims are used at top of Square D boxes—"Bottom" trims at bottom of boxes. Bottom connected meters require "Top" trims—Top connected meters require "Bottom" trims. Reversible trims may be used at either top or bottom of box.

Catalog No. 11512 is a bottom trim for use with G. E. Type 1-14 or F. W. Type K-5 meters. These meters are both bottom connected and Cat. No. 11512 trim is so designed that these bottom connected meters may be used at bottom of the box to meet special requirements. All Meter Trims are made of sheet steel except Catalog Nos. 11515 and 11516, which are of non-magnetic metal. Cat. Nos. 11515 and 11516 are for use with high capacity direct current meters which are affected by stray magnetic fields. If trims are required for types of meters not mentioned below, quotations will be furnished on request.

Code Word	Cat. No.	For Top or Bottom of Box	Make of Meter	Type	Service	No. of Wires	Volts	Amperes	Each
Gamer	11508	Top	Can. G. E.	I-9	S. Phase	2 & 3	110-220	3-75	\$0.94
Gasto	11517	Top	C. & H.	A-1	S. Phase	2	100-600	5-200	1.00
Gasto	11517	Top	C. & H.	A-1	S. Phase	3	200-600	5-100	1.00
Gaine	11505	Top	Duncan	M-2	S. Phase	2	110-600	5-25	.60
Gaine	11505	Top	Duncan	M-2	S. Phase	3	110-600	5-15	.60
Gadnar	11508	Top	Ft. W.	K-5	S. Phase	2 & 3	110-220	5-25	.40
Galons	11507	Top	Ft. W.	K-4 Form S. A. A.	S. Phase	2	210	5-25	.60
Galons	11507	Top	Ft. W.	K-4 Form S. A. A.	S. Phase	2 & 3	220	5-15	.60
Gaser	11514	Bottom	Ft. W.	K-3 Form S. B. A.	S. Phase	2	100-625	5-50	.60
Gaser	11514	Bottom	Ft. W.	K-3 Form S. B. A.	S. Phase	3	200-500	5-50	.60
Gater	11518	Bottom	Ft. W.	K-3 Form S. B. A.	S. Phase	2	110	5-25	2.30
Gapsh	11512	Bottom	Ft. W.	K Form S. A. A.	S. Phase	2 & 3	110-220	5-25	2.34
Geddo	11524	Reversible	Ft. W.	K-5	3 Phase	3 & 4	110	5-25	3.50
Gaham	11504	Top	Gen. Elec.	I-10	S. Phase	2	110-220	5-25	.60
Gaham	11504	Top	Gen. Elec.	I-10	S. Phase	3	110-220	5-15	.60
Gadar	11503	Top	Gen. Elec.	I-14	S. Phase	2 & 3	110-220	5-25	.40
Gemma	11526	Top	Gen. Elec.	I-14	S. Phase	2 & 3	110-220	50-75	1.30
Gapsh	11512	Bottom	Gen. Elec.	I-14	S. Phase	2 & 3	110-220	5-25	2.34
Galeb	11506	Reversible	Gen. Elec.	I.	S. Phase	2	110-650	3-25	2.30

Code Word	Cat. No.	For Top or Bottom of Box	Make of Meter	Type	Service	No. of Wires	Volts	Amperes	Each
Galeb	11506	Reversible	Gen. Elec.	I.	S. Phase	3	200-650	3-25	2.30
Ganto	11510	Reversible	Gen. Elec.	I.	S. Phase	2	100-600	50-75	2.84
Ganto	11510	Reversible	Gen. Elec.	I.	S. Phase	3	220	50-75	2.84
Gashe	11515	Reversible	Gen. Elec.	C-6	D. C.	2	110-220	5-50	5.00
Gashe	11515	Reversible	Gen. Elec.	C-6	D. C.	3	200	5-50	5.00
Gasoh	11516	Reversible	Gen. Elec.	C-7	D. C.	2	500-600	5-50	5.00
Garne	11513	Reversible	Gen. Elec.	D-3	2 & 3 Phase	3	100-600	3-75	3.50
Garne	11513	Reversible	Gen. Elec.	D-3	2 & 3 Phase	4	100-600	3-75	3.50
Gemat	11525	Reversible	Gen. Elec.	D-6	2 & 3 Phase	3 & 4	220-440	5-25	2.84
Gatpo	11521	Top	Sangamo	H Old Model	S. Phase	2	110	5-15	.60
Gaine	11505	Top	Sangamo	H New Model	S. Phase	2 & 3	110-550	5-15	.60
Gaxore	11528	Top	Sangamo	H. New Model	S. Phase	2 & 3	110-550	25-100	.50
Gatson	11523	Top	Sangamo	D-5	D. C.	2	110-220	10-100	.60
Gatser	11527	Reversible	Sangamo	H-2	Polyphase		110-550	5-100	3.50
Gabin	*11501	Top	West.	O. A.	S. Phase	2	100-200-400	5-10	.50
Gabin	*11501	Top	West.	O. A.	S. Phase	3	100-200	5-10	.50
Gatson	*11523	Top	West.	O. A.	S. Phase	2	100-400	5-10	.60
Gatson	*11523	Top	West.	O. A.	S. Phase	3	100-200	5-10	.60
Ganor	†11511	Top	West.	O. A.	S. Phase	2	100-200-400	15-80	.60
Ganor	†11511	Top	West.	O. A.	S. Phase	3	100-200	15-60	.60
Gatsav	†11522	Top	West.	O. A.	S. Phase	2	100-400	15-80	.60
Gatsav	†11522	Top	West.	O. A.	S. Phase	3	100-200	15-60	.60
Gatid	11519	Reversible	West.	O. A.	2 Phase	3	100-500	5-300	3.00
Gatid	11519	Reversible	West.	O. A.	3 Phase	4	100-500	5-300	3.00
Gatid	11519	Reversible	West.	O. A.	3 Phase	3	100-500	5-300	3.00
Gatid	11519	Reversible	West.	O. A.	3 Phase	4	100-500	5-25	3.00
Gacot	11502	Bottom	West.	C.	S. Phase	2	100-200	5-20	.60
Gacot	11502	Bottom	West.	C.	S. Phase	2	100-500	5-20	.60
Gaton	11520	Reversible	West.	C.	2 Phase	3	100-500	5-40	3.00
Gaton	11520	Reversible	West.	West.	2 Phase	3	100-500	5-40	3.00
Gaton	11520	Reversible	West.	C.	2 Phase	4	100-500	5-40	3.00
Gaton	11520	Reversible	West.	C.	3 Phase	4	100-500	5-40	3.00

*Cat. Nos. 11501 and 11523 are similar except that No. 11501 is used with the meter terminal cover and holding stud in place, while No. 11523 is used when terminal cover and holding stud are removed.

†Cat. Nos. 11511 and 11522 are similar except that No. 11511 is used with the meter terminal cover and holding stud in place, while No. 11522 is used when terminal cover and holding stud are removed.

METER PROTECTIVE TRIMS FOR SQUARE D SAFETY SWITCHES



No. 11506



No. 11505



No. 11513



No. 11501 and 11511



No. 11507



No. 11502



No. 11526



No. 11516



No. 11504



No. 56211
Switch
with 11503
Trim and
Meter



No. 11512



No. 7251 Switch

No. 6351 Motor Starter

SQUARE D IRON CLAD SWITCHES AND MOTOR STARTERS

These are of the interlocking type, i. e., the cover interlocks with the switch mechanism and cannot be opened while the switch is in operating position. The entire mechanism, including fuse clips, is mounted on the inside of cover and, as the latter is opened, swings out and away from the live terminals. Fuse connections are thus absolutely dead and accidental contact with live parts, while replacing fuses is impossible. Both switch and motor starters have quick-make-and-break action. Openings are provided at top and bottom of the cast iron box for end plates which are detachable and interchangeable.

The starters are designed for use with motors up to and including 7½ H. P. or which may be started by switching directly onto full line voltage. When the switch is in starting position, removable shunt bars, which parallel the fuses, are in circuit with the latter and carry the excessive starting current.

Releasing the operating lever automatically throws the mechanism into the running position, removing the shunt bars from the circuit causing all current to then pass through the fuses. This arrangement permits proper fusing of starter for running load thereby insuring protection of motor.

Bases are provided with solder lugs which will take wires up to and including No.2 B. & S. Gauge.

Motor Starters can be equipped with padlock and clamp, making it possible to lock them in the "off" position. The padlock furnished is a solid brass Corbin lock, their number 2879C, complete with two keys. The chain is also of brass.

The price of lock, clamp, chain and attaching to the switch is \$1.50 per switch, net, additional.

For N. E. C. S. Fuses

Code Word	Catalog No.
Dakim	7251

IRON CLAD—FUSED SWITCH

End Plates To Fit	Weight Lbs.	List Each Without End Plates
Class 1	12	\$18.00

MOTOR STARTERS

Iron Clad—Straight Connected

Diffar	30	3	250	Class 1	26	45.00	45.80
Diham	30	4	250	Class 1	28	57.00	55.80
Digah	30	3	600	Class 2	76	103.00	101.80

Always specify catalog numbers of end plates wanted. If end plates are not specified and unless definite instructions are given NOT to furnish switches complete with end plates, we will ship and bill end plates suitable for use with switches ordered.

List Each With Two Conduit End Pits	\$20.00
List Each With Two Open Wiring End Plates	\$18.80

List Prices Subject to Schedule A Discounts

DETACHABLE AND INTERCHANGEABLE END PLATES

List Prices Subject to Schedule A Discounts
For Iron Clad Switches and Motor Starters.
CONDUIT END PLATES (Cast Iron)

Class 1

For use with Ironclad Switches and Ironclad Motor Starters of 300 amperes capacity—250 Volts.

Code Word	Catalog Number	No. Conduits	Size of Conduit	Weight Lbs. Carton Quantity	List Each
Chab	18711	1	1½"	3½	\$1.00
Chack	18712	1	1¾"	3½	1.00
Chade	18713	1	1"	3½	1.00
Chaen	18714	1	1¼"	3½	1.00
Chafe	18721	2	1½"	4½	1.00
Chago	18722	2	1¾"	4½	1.00
Chahl	18723	2	1"	4½	1.00

Carton Quantity—5. Standard Package—50.

Class 2

For use only with Ironclad Motor Starters—30 amperes—600 volts.

Code Word	Catalog Number	Number Conduits	Size of Conduit	Weight Lbs. Carton Quantity	List Each
Cheba	18813	1	1"	8¼	\$1.60
Checo	18814	1	1¼"	8¼	1.60
Chega	18823	2	1"	9	1.60

Carton Quantity—5. Standard Package—25.

OPEN WIRING END PLATES (Sheet Steel)

Class 1

For use only with Ironclad Switches and Ironclad Motor Starters of 30 amperes capacity—250 volts.

Code Word	Catalog Number	Holes in Porcelain No.	Diameter	Weight Lbs. Carton Quantity	List Each
Clabo	19700		Blank	2	\$0.40
Ciace	19721	2	1½"	2¼	.40
Cladh	19722	2	1½"	2¼	.40
Ciafa	19731	3	1½"	2¼	.40
Ciage	19732	3	1½"	2¼	.40
Ciajm	19741	4	1½"	2¼	.40
Ciake	19742	4	1½"	2¼	.40

Carton Quantity—10. Standard Package—100.

Class 2

For use only with Ironclad Motor Starters—30 amperes—600 volts.

Code Word	Catalog Number	Holes in Porcelain No.	Diameter	Weight Lbs. Carton Quantity	List Each
Ciebmn	19800		Blank	5	\$1.00
Ciedr	19822	2	1½"	3¼	1.00
Ciefa	19823	2	1½"	3¼	1.00
Ciehl	19832	3	1½"	3¼	1.00
Ciekr	19833	3	1½"	3¼	1.00
Gieme	19842	4	1½"	3¼	1.00
Cienk	19843	4	1½"	3¼	1.00

Carton Quantity—5. Blanks—10. Standard Package—50.



DETACHABLE AND INTERCHANGEABLE END PLATES For Iron Clad Switches and Motor Starters



Cat. No. 18713



Cat. No. 18721



Cat. No. 19722



Cat. No. 19732

PORCELAIN BUSHINGS For Use in Conduit Knockout Openings Listed on page 54



PORCELAIN BUSHINGS

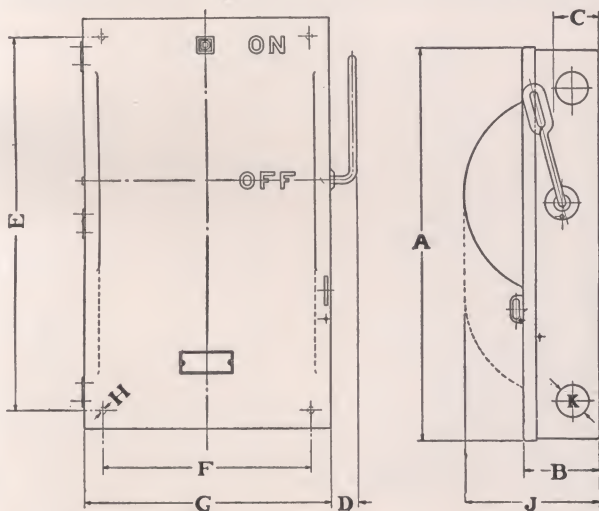
For use in Conduit Knockout Openings

List Prices Subject to Schedule C Discounts

Code Word	Number	Diameter Wire Hole Inches	Outside Diameter of Shank Inches	Equivalent Trade Size Conduit Inches	Carton Quantity	Standard Package Quantity	Wgt. Lbs. Standard Package	List Per 100
Indat	17111	$\frac{1}{8}$ "	$\frac{11}{16}$ "	$\frac{1}{2}$ "	50	250	12 $\frac{1}{2}$	\$5.60
Inham	17112	$\frac{1}{8}$ "	$\frac{11}{16}$ "	$\frac{1}{2}$ "	50	250	12 $\frac{1}{2}$	5.60
Inland	17212	$\frac{1}{8}$ "	1"	$\frac{3}{4}$ "	25	150	6	9.00
Innah	17213	$\frac{1}{8}$ "	1"	$\frac{3}{4}$ "	25	150	6	9.00
Insep	17314	$\frac{3}{8}$ "	1 $\frac{1}{4}$ "	1"	25	100	6	12.00
Inter	17416	1 $\frac{1}{8}$ "	1 $\frac{5}{8}$ "	1 $\frac{1}{4}$ "	25	50	5	14.80

Porcelain bushings listed above are designed particularly for use with "Square D" Switch Boxes. They may be used, however, to an advantage on any sheet cabinet made of metal of the same thickness where proper openings are provided. Illustrations show comparative sizes of bushings for use with "Square D" boxes. Reversed bushing at left shows how wire spring clamp is attached. Price includes spring wire clamp with each bushing.

DIMENSIONS OF SQUARE D SWITCH BOXES



DIMENSIONS IN INCHES

Cat. No.	A	B	D	E	F	G	H	J	K
35211	7 ³ / ₈	3 ¹ / ₈	...	6	5	6 ³ / ₈	1 ¹ / ₄	...	1 ¹ / ₂
46311	10 ³ / ₄	3 ¹ / ₈	3 ³ / ₄	9 ¹ / ₂	5 ⁷ / ₈	7 ¹ / ₈	1 ¹ / ₄	4 ³ / ₈	1 ¹ / ₂
47311	10 ³ / ₄	3 ¹ / ₈	3 ³ / ₄	9 ¹ / ₂	5 ⁷ / ₈	7 ¹ / ₈	1 ¹ / ₄	4 ³ / ₈	1 ¹ / ₂
48311	10 ³ / ₄	3 ¹ / ₈	3 ³ / ₄	9 ¹ / ₂	5 ⁷ / ₈	7 ¹ / ₈	1 ¹ / ₄	4 ³ / ₈	1 ¹ / ₂
50251	14 ³ / ₈	4 ¹ / ₈	1 ³ / ₈	12 ¹ / ₂	5 ¹ / ₂	7 ¹ / ₈	2 ¹ / ₄	5 ¹ / ₈	1 ¹ / ₂
50351	16 ⁷ / ₈	4 ¹ / ₈	1 ³ / ₈	15	10 ⁷ / ₈	12 ¹ / ₈	2 ¹ / ₄	6 ¹ / ₈	1 ¹ / ₂
50451	12 ³ / ₈	4 ¹ / ₈	1 ³ / ₈	10 ¹ / ₂	10 ⁷ / ₈	12 ⁷ / ₈	2 ¹ / ₄	6 ¹ / ₈	1 ¹ / ₂
51242	12 ³ / ₈	4 ¹ / ₈	1 ³ / ₈	10 ¹ / ₂	6 ¹ / ₂	8 ¹ / ₈	2 ¹ / ₄	6 ¹ / ₈	1 ¹ / ₂
51243	12 ³ / ₈	4 ¹ / ₈	1 ³ / ₈	10 ¹ / ₂	6 ¹ / ₂	8 ¹ / ₈	2 ¹ / ₄	6 ¹ / ₈	1 ¹ / ₂
51244	19 ¹ / ₄	4 ¹ / ₈	1 ³ / ₈	17 ³ / ₈	8 ¹ / ₂	10 ¹ / ₈	2 ¹ / ₄	8 ³ / ₄	1 ¹ / ₂
51245	21 ¹ / ₈	5 ¹ / ₈	1 ³ / ₈	19 ¹ / ₂	10 ⁷ / ₈	12 ³ / ₈	2 ¹ / ₄	10 ³ / ₈	1 ¹ / ₂
51251	7 ³ / ₈	3 ¹ / ₈	3 ³ / ₄	6	5	6 ³ / ₈	1 ¹ / ₄	4 ³ / ₈	1 ¹ / ₂
51262	12 ³ / ₈	4 ¹ / ₈	1 ³ / ₈	10 ¹ / ₂	6 ¹ / ₂	8 ¹ / ₈	2 ¹ / ₄	6 ¹ / ₈	1 ¹ / ₂
51263	19 ¹ / ₄	4 ¹ / ₈	1 ³ / ₈	17 ³ / ₈	8 ¹ / ₂	10 ¹ / ₈	2 ¹ / ₄	8 ³ / ₄	1 ¹ / ₂
51264	21 ¹ / ₈	5 ¹ / ₈	1 ³ / ₈	19 ¹ / ₂	10 ⁷ / ₈	12 ³ / ₈	2 ¹ / ₄	10 ³ / ₈	1 ¹ / ₂
51342	10 ³ / ₄	4 ¹ / ₈	1 ³ / ₈	8 ¹ / ₂	9 ¹ / ₈	11 ³ / ₈	2 ¹ / ₄	5 ³ / ₈	1 ¹ / ₂
51343	12 ³ / ₈	4 ¹ / ₈	1 ³ / ₈	10 ¹ / ₂	10 ⁷ / ₈	12 ⁷ / ₈	2 ¹ / ₄	6 ¹ / ₈	1 ¹ / ₂
51344	18 ³ / ₈	4 ¹ / ₈	1 ³ / ₈	16 ¹ / ₂	10 ⁷ / ₈	12 ¹ / ₈	2 ¹ / ₄	7 ¹ / ₄	1 ¹ / ₂
51345	22 ¹ / ₂	5 ¹ / ₈	1 ¹ / ₂	20 ¹ / ₂	18	20 ¹ / ₈	2 ¹ / ₄	8 ¹ / ₈	1 ¹ / ₂
51351	7 ³ / ₈	3 ¹ / ₈	3 ³ / ₄	6	5	6 ³ / ₈	1 ¹ / ₄	4 ³ / ₈	1 ¹ / ₂
51362	12 ¹ / ₄	4 ¹ / ₈	1 ¹ / ₂	10 ⁷ / ₈	15	17	2 ¹ / ₄	7 ¹ / ₄	1 ¹ / ₂
51363	22 ¹ / ₂	5 ¹ / ₈	1 ¹ / ₂	20 ¹ / ₂	18	20 ¹ / ₈	2 ¹ / ₄	8 ¹ / ₈	1 ¹ / ₂



DIMENSIONS OF SQUARE D SWITCH BOXES

(Continued)

DIMENSIONS IN INCHES

Cat. No.	A	B	D	E	F	G	H	J	K
51364	22 1/2	5 1/8	1 5/8	20 1/2	18	20 1/8	2 1/4	13	1 3/4
51442	12 3/8	4 1/8	1 3/8	10 1/2	10 7/8	12 1/8	2 1/4	6 1/8	1 1/4
51443	12 3/8	4 1/8	1 3/8	10 1/2	10 7/8	12 1/8	2 1/4	6 1/8	1 1/4
51444	22 1/2	5 1/8	1 1/2	20 1/2	18	20 1/8	2 1/4	8 1/4	1 3/4
51445	22 1/2	5 1/8	1 1/2	19 1/2	18	20 1/8	2 1/4	8 1/4	1 3/4
51451	10 3/4	3 3/8	1 3/4	8 7/8	9 1/4	11 1/8	1 1/4	4 3/8	1 1/4
51462	16 1/8	4 1/8	1 7/8	14 1/2	18	20	2 1/4	7 1/8	1 3/4
52242	12 3/8	4 1/8	1 3/8	10 1/2	6 1/2	8 1/8	2 1/4	6 1/8	...
52243	19 1/8	4 1/8	1 3/8	17 3/8	8 1/2	10 1/8	2 1/4	7 1/8	1 3/4
52244	19 1/8	4 1/8	1 3/8	17 3/8	8 1/2	10 1/8	2 1/4	7 1/8	1 3/4
52251	10 3/4	3 3/8	1	9 1/2	5 7/8	7 1/8	1 1/4	4 3/8	1 1/4
52264	27 1/2	3 1/8	1 1/2	25 1/2	11 1/2	13 1/2	2 1/4	11 1/8	1 3/4
52342	12 3/8	4 1/8	1 3/8	10 1/2	10 7/8	12 1/8	2 1/4	6 1/8	1 1/4
52343	16 1/8	4 1/8	1 1/8	15	10 7/8	12 1/8	2 1/4	7 1/4	1 3/4
52344	22 1/2	5 1/8	1 1/2	20 1/2	18	20 1/8	2 1/4	8 1/4	1 3/4
52351	10 3/4	3 1/8	1 3/4	8 7/8	9 1/4	11 1/4	1 1/4	4 3/8	1 1/4
56211	7 3/8	3 3/8	3/4	6	5	6 3/8	1 1/4	4 3/8	1 1/4
56251	7 3/8	3 3/8	3/4	6	5	6 3/8	1 1/4	4 3/8	1 1/4
56252	14 3/8	4 1/8	1 3/8	12 1/2	5 1/2	7 1/8	2 1/4	5 1/8	1 1/4
56253	19 1/8	4 1/8	1 3/8	17 3/8	8 1/2	10 1/8	2 1/4	7 1/8	1 3/4
56254	25 1/2	5 1/8	1 1/2	23 1/2	9 1/2	11 1/8	2 1/4	8 3/4	1 3/4
56255	31	5 1/8	1 1/2	29	11 1/2	13 1/8	2 1/4	11 1/8	1 3/4
56256	40 1/2	6 1/8	1 1/2	38 1/2	11 1/2	13 1/2	2 1/4	12 1/8	...
56257	36	5 1/8	...	...	...	17 7/8	...	9 1/8	...
56258	43	6	...	...	...	23	...	12 1/2	...
56261	19 1/8	4 1/8	1 3/8	17 3/8	8 1/2	10 1/8	2 1/4	7 1/8	1 3/4
56262	19 1/8	4 1/8	1 3/8	17 3/8	8 1/2	10 1/8	2 1/4	7 1/8	1 3/4
56263	25 1/2	5 1/8	1 1/2	23 1/2	9 1/2	11 1/8	2 1/4	8 3/4	1 3/4
56264	31	5 1/8	1 1/2	29	11 1/2	13 1/8	2 1/4	11 1/8	1 3/4
56265	40 1/2	6 1/8	1 1/2	38 1/2	11 1/2	13 1/2	2 1/4	12 1/8	...
56311	7 3/8	3 3/8	1 7/8	6	5	6 3/8	1 1/4	4 3/8	1 1/4
56341	16 1/8	4 1/8	1 3/8	15	10 7/8	12 1/8	2 1/4	6 1/8	1 1/4
56342	16 1/8	4 1/8	1 3/8	15	10 7/8	12 1/8	2 1/4	6 1/8	1 1/4
56343	21 3/8	4 1/8	1 3/8	19 1/2	10 7/8	12 1/8	2 1/4	7 1/8	1 3/4
56351	10 1/4	3 3/8	1 3/4	9 1/2	5 7/8	7 1/8	1 1/4	4 3/8	1 1/4
56352	16 1/8	4 1/8	1 3/8	15	10 7/8	12 1/8	2 1/4	6 1/8	1 1/4
56353	21 3/8	4 1/8	1 3/8	19 1/2	10 7/8	12 1/8	2 1/4	7 1/8	1 3/4
56354	25 1/2	5 1/8	1 1/2	23 1/2	15	17 1/8	2 1/4	8 3/4	1 3/4
56355	31	5 1/8	1 1/2	29	20 1/2	22 1/8	2 1/4	11 1/8	1 3/4
56356	40 1/2	6 1/8	1 1/2	38 1/2	20 1/2	22 1/2	2 1/4	12 1/8	...
56357	41	6 1/8	...	...	...	27 1/2	...	9 1/8	...
56358	43 1/8	6 1/8	...	...	...	32 1/2	...	12 1/8	...
56361	19 1/8	4 1/8	1 3/8	17 3/8	13	15	2 1/4	7 1/8	1 3/4
56362	19 1/8	4 1/8	1 3/8	17 3/8	13	15	2 1/4	7 1/8	1 3/4
56363	25 1/2	5 1/8	1 1/2	23 1/2	15	17 1/8	2 1/4	8 3/4	1 3/4
56364	31	5 1/8	1 1/2	29	20 1/2	22 1/8	2 1/4	11 1/8	1 3/4
56365	40 1/2	6 1/8	1 1/2	38 1/2	20 1/2	22 1/2	2 1/4	12 1/8	...
56411	10 3/4	3 1/8	1 3/4	8 7/8	9 1/4	11 5/8	1 1/4	4 3/8	1 1/4
56441	19 1/8	4 1/8	1 1/2	17 3/8	13	15	2 1/4	7 1/8	1 3/4
56442	19 1/8	4 1/8	1 1/2	17 3/8	13	15	2 1/4	7 1/8	1 3/4



DIMENSIONS OF SQUARE D SWITCH BOXES (Continued)

DIMENSIONS IN INCHES

Cat. No.	A	B	D	E	F	G	H	J	K
56443	25 1/2	5 1/8	1 1/2	23 1/2	15	17 1/8	2 1/4	8 3/4	1 8 1/4
56451	10 3/4	3 1/8	3/4	8 7/8	9 1/4	11 5/8	1 1/4	4 3/8	1 2 3/8
56452	19 1/8	4 1/8	1 1/2	17 3/8	13	15	2 1/4	7 1/8	1 2 3/8
56453	19 1/8	4 1/8	1 3/8	17 3/8	13	15	2 1/4	7 1/8	1 2 3/8
56454	25 1/2	5 1/8	1 1/2	23 1/2	15	17 1/8	2 1/4	8 3/4	1 8 1/4
56455	31	5 1/8	1 1/2	29	20 1/2	22 1/8	2 1/4	11 1/8	1 8 1/4
56461	19 3/8	4 1/8	1 3/4	17 3/8	18	20 1/8	2 1/4	7 5/8	1 2 3/8
56462	19 3/8	4 1/8	1 3/4	17 3/8	18	20 1/8	2 1/4	7 5/8	1 2 3/8
56463	31	5 1/8	1 1/2	29	20 1/2	22 1/8	2 1/4	11 1/8	1 8 1/4
56464	31	5 1/8	1 1/2	29	20 1/2	22 1/8	2 1/4	11 1/8	1 8 1/4
56465	40 7/8	6 1/8	1 3/4	38 1/2	27 3/4	29 1/8	2 1/4	12 3/8	2 8 3/4
57311	7 3/8	3 1/8	7/8	6	5	6 3/8	1 1/4	4 3/8	1 3 3/8
65341	18 3/8	4 1/8	1 1/8	16 1/2	10 7/8	12 1/8	2 1/4	7 1/4	1 2 3/8
65342	18 3/8	4 1/8	1 1/8	16 1/2	10 7/8	12 1/8	2 1/4	7 1/4	1 2 3/8
65351	12 3/8	3 1/8	1 1/8	10 1/2	9	10 1/8	2 1/4	5 1/8	1 2 3/8
65352	18 3/8	4 1/8	1 1/8	16 1/2	10 7/8	12 1/8	2 1/4	7 1/4	1 2 3/8
65353	21 3/8	4 1/8	1 1/8	19 1/2	10 7/8	12 3/8	2 1/4	7 1/8	1 2 3/8
66251	12 3/8	3 1/8	1 1/8	10 1/2	9	11 1/8	2 1/4	5 1/8	1 2 3/8
66341	18 3/8	4 1/8	1 1/8	16 1/2	10 7/8	12 1/8	2 1/4	7 1/4	1 2 3/8
66342	18 3/8	4 1/8	1 1/8	16 1/2	10 7/8	12 1/8	2 1/4	7 1/4	1 2 3/8
66351	12 3/8	3 1/8	1 1/8	10 1/2	9	10 1/8	2 1/4	5 1/8	1 2 3/8
66352	18 3/8	4 1/8	1 1/8	16 1/2	10 7/8	12 1/8	2 1/4	7 1/4	1 2 3/8
66353	21 3/8	4 1/8	1 1/8	19 1/2	10 7/8	12 3/8	2 1/4	7 1/8	1 2 3/8
66451	12 3/8	3 1/8	1 3/8	10 1/2	10 5/8	12 1/8	2 1/4	5 1/8	1 4 3/8
78211	7 3/8	3 1/8	7/8	6	5	6 3/8	1 1/4	4 3/8	1 3 3/8
78252	14 3/8	4 1/8	1 3/8	12 1/2	5 1/2	7 1/8	2 1/4	6 1/8	1 2 3/8
78253	19 1/8	4 1/8	1 3/8	17 3/8	8 1/2	10 1/8	2 1/4	7 1/8	1 2 3/8
78254	25 1/2	5 1/8	1 1/2	23 1/2	9 1/2	11 1/8	2 1/4	8 3/4	1 8 1/4
78311	7 3/8	3 1/8	7/8	6	5	6 3/8	1 1/4	4 3/8	1 3 3/8
78341	16 7/8	4 1/8	1 3/8	15	10 7/8	12 1/8	2 1/4	6 1/8	1 2 3/8
78342	16 7/8	4 1/8	1 3/8	15	10 7/8	12 1/8	2 1/4	6 1/8	1 2 3/8
78343	21 3/8	4 1/8	1 3/8	19 1/2	10 7/8	12 1/8	2 1/4	7 1/8	1 2 3/8
78351	16 7/8	4 1/8	1 3/8	15	10 7/8	12 1/8	2 1/4	6 1/8	1 2 3/8
78352	16 7/8	4 1/8	1 3/8	15	10 7/8	12 1/8	2 1/4	6 1/8	1 2 3/8
78353	21 3/8	4 1/8	1 3/8	19 1/2	10 7/8	12 1/8	2 1/4	7 1/8	1 2 3/8
78354	25 1/2	5 1/8	1 1/2	23 1/2	15	17 1/8	2 1/4	8 3/4	1 8 1/4
78355	31	5 1/8	1 1/2	29	20 1/2	22 1/8	2 1/4	11 1/8	1 8 1/4
78361	19 1/8	4 1/8	1 3/8	17 3/8	13	15	2 1/4	7 1/8	1 2 3/8
78362	19 1/8	4 1/8	1 3/8	17 3/8	13	15	2 1/4	7 1/8	1 2 3/8
78363	25 1/2	5 1/8	1 1/2	23 1/2	15	17 1/8	2 1/4	8 3/4	1 8 1/4
78364	31	5 1/8	1 1/2	29	20 1/2	22 1/8	2 1/4	11 1/8	1 8 1/4
78451	16 7/8	4 1/8	1 3/8	15	10 7/8	12 1/8	2 1/4	6 1/8	1 2 3/8
78452	19 1/8	4 1/8	1 3/8	17 3/8	13	15	2 1/4	7 1/8	1 2 3/8
78453	25 1/2	5 1/8	1 1/2	23 1/2	15	17 1/8	2 1/4	8 3/4	1 8 1/4
78461	19 1/8	4 1/8	1 3/4	17 3/8	18	20	2 1/4	7 1/8	1 2 3/8
78462	19 1/8	4 1/8	1 3/4	17 3/8	18	20	2 1/4	7 1/8	1 2 3/8
78463	31	5 1/8	1 1/2	29	20 1/2	22 1/8	2 1/4	11 1/8	1 8 1/4
96211	7 3/8	3 1/8	7/8	6	5	6 3/8	1 1/4	4 3/8	1 3 3/8
96311	7 3/8	3 1/8	7/8	6	5	6 3/8	1 1/4	4 3/8	1 3 3/8
97311	7 3/8	3 1/8	7/8	6	5	6 3/8	1 1/4	4 3/8	1 3 3/8

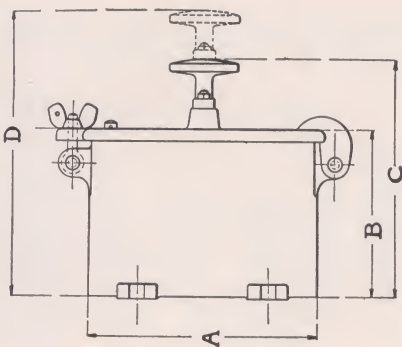
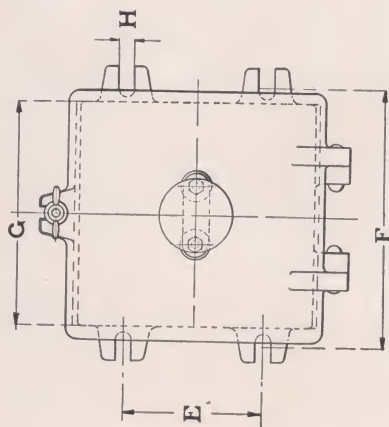


DIMENSIONS OF SQUARE D SWITCHES

Ironclad—Fused

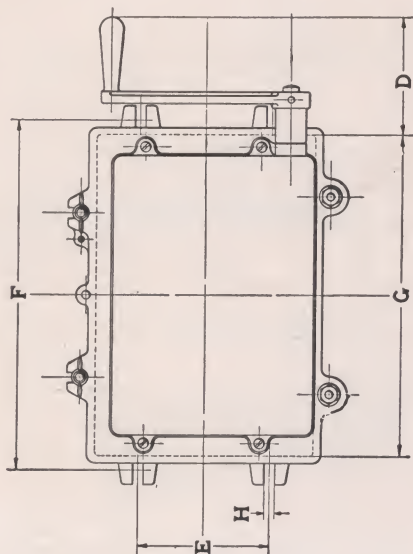
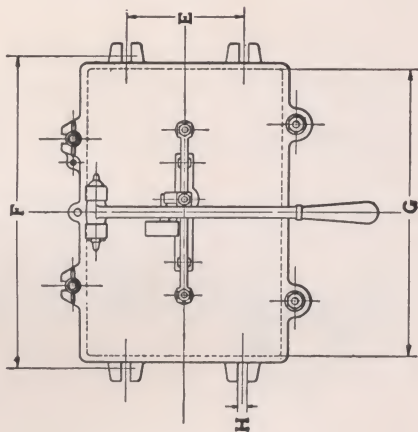
Dimensions in Inches

Cat. No.	Capacity Amps.	Volt	No. Poles	A	B	C	D	E	F	G	H
7251	0-30	250	2	5¾	4½	6¼	7½		6¼	5¼	11

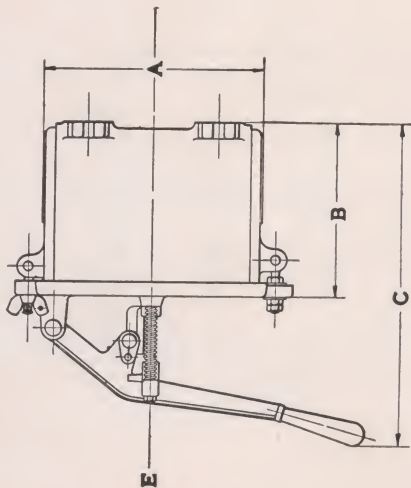
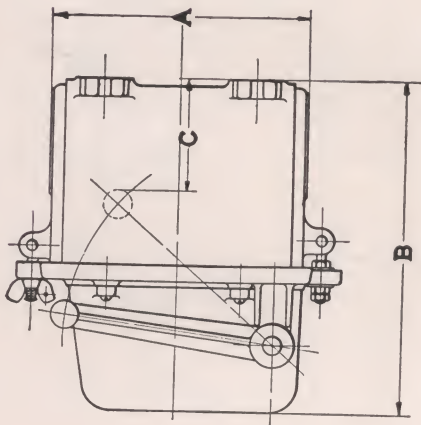


IRONCLAD MOTOR STARTERS

(Table on page 58)



IRONCLAD MOTOR STARTERS (Continued)



Dimensions in Inches

Cat. No.	Capacity Amps.	Volt	No. Poles	A	B	C	D	E	F	G	H
6351	0-30	250	3	7	5 1/4	9 1/2	17	4	10 5/8	9 3/4	1 1/4
6361	0-30	600	3	12	8 1/2	11 1/4	4	7 1/4	16 1/4	14 1/2	2 3/8
6451	0-30	250	4	7	8 1/2	11 1/4	18	4	11 5/8	10 1/2	1 1/4

WIRING DATA FOR SINGLE-PHASE MOTORS

H. P. of Motor	Voltage	Size of Switch Amperes	Catalog No. of Square D Switch Required	Conduit End Plates in 1 2 Wires in 1 Conduit	Approximate Full Load Current Amperes	Size of Starting Fuses Amperes	Size of Running Fuses Amperes	Size of Wire B. & S. Gauge for 2 Wires	Size of Conduit for 2 Wires
1/4	110	30	56211	18312	6	10	10	14	1/4
	220	30	56251	18312	3	5	5	14	1/4
1/2	110	30	56211	18312	8	20	12	12	1/2
	220	30	56251	18312	4	10	10	14	1/2
1	110	30	56211	18312	13	25	25	10	3/4
	220	30	56251	18312	6 1/2	15	15	14	3/4
2	110	30	66351	18314	24	60	30	4	1 1/4
	220	30	6351	18714	24	60	30	4	1 1/4
	110	30	66351	18313	12	30	20	8	1 1/4
	220	30	6351	18713	12	30	20	8	1 1/4
3	110	60	66352	18414	38	70	60	4	1 1/4
	220	30	66351	18313	19	35	30	8	1 1/4
	220	30	6351	18713	19	35	30	8	1 1/4
4	110	60	66352	18414	46	75	60	6	1 1/4
	220	30	66351	18313	23	40	30	6	1 1/4
	220	30	6351	18713	23	40	30	6	1 1/4
5	220	60	66352	18413	31	50	45	3	1 1/4
7 1/2	220	60	66352	18414	43	75	60	3	1 1/4
10	220	100	66353	18415	58	100	90	1	1 1/2

WIRING DATA FOR D. C. MOTORS

H. P. of Motor	Voltage	Size of Switch Amperes	Catalog No. of Square D Switch Required	Conduit End Plates 2 Wires in 1 Conduit	Approximate Full Load Current Amperes	Size of Running Fuses Amperes	Size of Wire B. & S. Gauge	Size of Conduit for 2 Wires
1	110	30	56211	18312	10 1/2	15	14	3/4
	220	30	56251	18312	5	8	14	3/4
	600	30	56261	18412	2	3	14	3/4
2	110	30	56211	18312	21	30	10	3/4
	220	30	56251	18412	10 1/2	15	14	3/4
	600	30	56261	18412	4	6	14	3/4
3	110	60	56252	18413	30	40	8	1
	220	30	56251	18412	15	20	12	3/4
	600	30	56261	18412	5 1/2	8	14	3/4
5	110	60	56252	18413	42 1/2	60	6	1
	220	30	56251	18412	21	30	10	3/4
	600	30	56261	18412	7 1/2	10	14	3/4
7 1/2	110	100	56253	18414	63 1/2	85	4	1 1/4
	220	60	56252	18413	32	45	8	1
	600	30	56261	18412	10 1/2	15	14	3/4
10	110	100	56253	18414	80	110	2	1 1/4
	220	60	56252	18413	40	55	6	1
	600	30	56261	18412	14 1/2	20	12	3/4
15	110	200	56254	18516	120	160	00	2
	220	100	56253	18414	60	80	4	1 1/4
	600	30	56261	18412	22	30	10	3/4
20	110	200	56254	18516	151	200	0000	2
	220	100	56253	18414	75	100	3	1 1/4
	600	60	56262	18413	28	35	8	1
30	110	400	56255	18517	226	300	300,000 C. M.	2 1/2
	220	200	56254	18415	113	150	0	1 1/2
	600	60	56262	18413	42	60	0000	1
40	110	200	56254	18517	151	200	6	2
	220	100	56253	18414	75	100	0000	1 1/2
	600	60	56262	18413	28	35	8	1
50	110	400	56255	18517	226	300	300,000 C. M.	2 1/2
	220	200	56254	18415	113	150	0	1 1/2
	600	60	56262	18413	42	60	0000	1
75	110	200	56254	18517	151	200	6	2
	220	100	56253	18414	75	100	0000	1 1/2
	600	60	56262	18413	28	35	8	1
100	110	400	56255	18517	226	300	300,000 C. M.	2 1/2
	220	200	56254	18415	113	150	0	1 1/2
	600	60	56262	18413	42	60	0000	1
150	110	200	56254	18517	151	200	6	2
	220	100	56253	18414	75	100	0000	1 1/2
	600	60	56262	18413	28	35	8	1
200	110	400	56255	18517	226	300	300,000 C. M.	2 1/2
	220	200	56254	18415	113	150	0	1 1/2
	600	60	56262	18413	42	60	0000	1
250	110	200	56254	18517	151	200	6	2
	220	100	56253	18414	75	100	0000	1 1/2
	600	60	56262	18413	28	35	8	1
300	110	400	56255	18517	226	300	300,000 C. M.	2 1/2
	220	200	56254	18415	113	150	0	1 1/2
	600	60	56262	18413	42	60	0000	1
350	110	200	56254	18517	151	200	6	2
	220	100	56253	18414	75	100	0000	1 1/2
	600	60	56262	18413	28	35	8	1
400	110	400	56255	18517	226	300	300,000 C. M.	2 1/2
	220	200	56254	18415	113	150	0	1 1/2
	600	60	56262	18413	42	60	0000	1
450	110	200	56254	18517	151	200	6	2
	220	100	56253	18414	75	100	0000	1 1/2
	600	60	56262	18413	28	35	8	1
500	110	400	56255	18517	226	300	300,000 C. M.	2 1/2
	220	200	56254	18415	113	150	0	1 1/2
	600	60	56262	18413	42	60	0000	1
550	110	200	56254	18517	151	200	6	2
	220	100	56253	18414	75	100	0000	1 1/2
	600	60	56262	18413	28	35	8	1
600	110	400	56255	18517	226	300	300,000 C. M.	2 1/2
	220	200	56254	18415	113	150	0	1 1/2
	600	60	56262	18413	42	60	0000	1
650	110	200	56254	18517	151	200	6	2
	220	100	56253	18414	75	100	0000	1 1/2
	600	60	56262	18413	28	35	8	1
700	110	400	56255	18517	226	300	300,000 C. M.	2 1/2
	220	200	56254	18415	113	150	0	1 1/2
	600	60	56262	18413	42	60	0000	1
750	110	200	56254	18517	151	200	6	2
	220	100	56253	18414	75	100	0000	1 1/2
	600	60	56262	18413	28	35	8	1
800	110	400	56255	18517	226	300	300,000 C. M.	2 1/2
	220	200	56254	18415	113	150	0	1 1/2
	600	60	56262	18413	42	60	0000	1
850	110	200	56254	18517	151	200	6	2
	220	100	56253	18414	75	100	0000	1 1/2
	600	60	56262	18413	28	35	8	1
900	110	400	56255	18517	226	300	300,000 C. M.	2 1/2
	220	200	56254	18415	113	150	0	1 1/2
	600	60	56262	18413	42	60	0000	1
950	110	200	56254	18517	151	200	6	2
	220	100	56253	18414	75	100	0000	1 1/2
	600	60	56262	18413	28	35	8	1
1000	110	400	56255	18517	226	300	300,000 C. M.	2 1/2
	220	200	56254	18415	113	150	0	1 1/2
	600	60	56262	18413	42	60	0000	1

WIRING DATA FOR THREE-PHASE MOTORS

H. P. of Motor	Voltage	Size of Switch Amperes	Catalog No. of Square Require	Top Conduit End Plate 3 Wires in 1 Conduit	Bottom Conduit End Plate 3 Wires in 1 Conduit	Approximate Full Load Cur- rent Amperes	Size of Starting Fuses Amperes	Size of Running Fuses Amperes			Size of Wire B. & S.	Size Conduit For 3 Wires
1	110	30	66351	18313	18313	6	15	10	.....	.....	8	1
	110	30	6351	18713	18713	3	15	10	.....	.....	8	1
	220	30	66351	18313	18313	3	8	6	.....	.....	8	1
	220	30	6351	18713	18713	3	8	6	.....	.....	8	1
	440	30	66341	18412	18412	1½	4	3	.....	.....	10	¾
	440	30	6361	18812	18812	1½	4	3	.....	.....	10	¾
2	110	30	66351	18313	18313	12	30	20	.....	.....	8	1
	110	30	6351	18713	18713	12	30	20	.....	.....	8	1
	220	30	66351	18313	18313	6	15	10	.....	.....	8	1
	220	30	6351	18713	18713	6	15	10	.....	.....	8	1
	440	30	66341	18413	18413	3	8	6	.....	.....	8	1
	440	30	6361	18813	18813	3	8	6	.....	.....	8	1
5	110	30	66351	18313	18313	18	40	25	.....	.....	8	1
	110	30	6351	18713	18713	18	40	25	.....	.....	8	1
	220	30	66351	18313	18313	9	25	15	.....	.....	8	1
	220	30	6351	18713	18713	9	25	15	.....	.....	8	1
	440	30	66341	18413	18413	4½	10	6	.....	.....	8	1
	440	30	6361	18813	18813	4½	10	6	.....	.....	8	1
5	110	30	66351	18314	18314	30	70	40	.....	.....	6	1¼
	110	30	6351	18714	18714	30	70	40	.....	.....	6	1¼
	220	30	66351	18314	18314	15	35	20	.....	.....	6	1¼
	220	30	6351	18714	18714	15	35	20	.....	.....	6	1¼
	440	30	66341	18413	18413	7½	15	10	.....	.....	8	1
	440	30	6361	18813	18813	7½	15	10	.....	.....	8	1

WIRING DATA FOR THREE PHASE MOTOR-Continued

USE COMPENSATOR TYPE SWITCH WITH
COMPENSATOR WHEN OVERLOAD RELAYS
ARE NOT USED

Use Non-Fused Switch
with Compensator
when Overload Relays
are Used

H. P. of Motor	Voltage	Size of Switch Amperes	Catalog No. of Square D Switch Required	Top Conduit 3 Wires in 1 Conduit	Bottom Fibre-bushed Slotted End Plate	Catalog No. of Square D Switch Required	End Plates for Top and Bottom	Approximate Full Load Current Amperes	Size of Starting Fuses Amperes	Size of Running Fuses Amperes	Size of Wire B. & S. Gauge	Size Conduit For 3 Wires
7½	110	60	78352	18414	19484	51342	18414	42	80	60	4	1¼
	220	60	78352	18413	19484	51342	18413	21	40	30	4	1
	440	30	78341	18413	19484	51342	18413	10½	25	15	8	1
10	110	100	78353	18415	19484	51343	18415	56	100	75	8	1½
	220	60	78352	18414	19484	51342	18414	28	60	40	6	1½
	440	30	78341	18412	19484	51342	18412	14	30	20	10	1¼
15	110	200	78354	18415	19484	51343	18415	84	150	125	0	2
	220	60	78352	18414	19484	51342	18414	42	80	60	4	1¼
	440	30	78341	18413	19484	51342	18413	21	40	30	8	1
20	110	200	78354	18516	19586	51344	18415	104	200	150	0	2
	220	100	78353	18415	19484	51343	18415	52	100	75	2	1½
	440	60	78342	18414	19484	51342	18414	26	60	40	6	1¼
30	110	200	78354	18516	19586	51344	18415	156	250	200	300,000 C. M.	2½
	220	200	78354	18516	19586	51342	18415	78	150	125	0	2
	440	60	78342	18414	19484	51342	18414	39	80	60	4	1¼
40	220	200	78354	18516	19586	51344	18415	105	200	150	0	2
	440	100	78343	18415	19484	51343	18415	52½	100	75	2	1½
	220	200	78354	18516	19586	51344	18415	133	225	175	0000	2½
50	220	400	78343	18415	19484	51343	18415	66½	125	100	1	2½
	440	100	78355	18516	19586	51345	18516	184	300	250	300,000 C. M.	1½
	220	200	78364	18516	19586	51345	18415	92	150	125	0	2
100	220	400	78355	19516	19586	51345	17516	245	400	350	500,000 C. M.	3
	440	200	78364	18516	19586	51344	18415	122½	225	175	000	2

SIZE OF CONDUITS FOR THE INSTALLATION OF WIRES AND CABLES

These tables apply only to complete conduit systems and do not apply to short sections of conduit used for the protection of exposed wiring from mechanical injury.

Table 1. Two-Wire and Three-Wire Systems
Number of Conductors in One Conduit

Size of Conductor	1	2	3	4	5	6	7	8	9
	Minimum Size of Conduit								
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
14	1½	1½	1½	¾	¾	1	1	1	1
12	1½	1½	1½	¾	¾	1	1	1	1¼
10	1½	1½	¾	1	1	1	1¼	1¼	1¼
8	1½	¾	1	1	1	1¼	1¼	1¼	1¼
6	1½	1	1¼	1¼	1½	2	2	2	2
5	¾	1¼	1¼	1¼	1½	2	2	2	2
4	¾	1¼	1¼	1½	2	2	2	2	2½
3	¾	1¼	1¼	1½	2	2	2	2½	2½
2	¾	1¼	1½	1½	2	2	2½	2½	2½
1	¾	1½	1½	2	2	2½	2½	3	3
0	1	1½	2	2	2½	3	3	3	3
00	1	2	2	2½	2½	3	3	3	3½
000	1	2	2	2½	3	3	3	3½	3½
0000	1¼	2	2½	3	3	3	3½	3½	4
200000	1¼	2	2½	2½	3	3	3½	3½	4
225000	1¼	2½	2½	3	3	3½	3½	4	4
250000	1¼	2½	2½	3	3	3½	3½	4	4½
300000	1¼	2½	3	3	3½	3½	4	4½	4½
350000	1¼	2½	3	3½	3½	4	4	4½	5
400000	1¼	3	3	3½	4	4	4½	5	5
450000	1½	3	3	3½	4	4½	4½	5	6
500000	1½	3	3	3½	4	4½	5	5	6
550000	1½	3	3½	4	4½	5	5	6	6
600000	2	3	3½	4	4½	5	6	6	6
650000	2	3½	3½	4	4½	5	6	6	6
700000	2	3½	3½	4½	5	5	6	6	6
750000	2	3½	3½	4½	5	6	6	6	6
800000	2	3½	4	4½	5	6	6	6	6
850000	2	3½	4	4½	5	6	6	6	6
900000	2	3½	4	4½	5	6	6	6	6
950000	2	4	4	5	6	6	6	6	6
1000000	2	4	4	5	6	6	6	6	6
1100000	2½	4	4½	6	6	6	6	6	6
1200000	2½	4½	4½	6	6	6	6	6	6
1250000	2½	4½	4½	6	6	6	6	6	6
1300000	2½	4½	5	6	6	6	6	6	6
1400000	2½	4½	5	6	6	6	6	6	6
1500000	2½	4½	5	6	6	6	6	6	6
1600000	2½	5	5	6	6	6	6	6	6
1700000	3	5	5	6	6	6	6	6	6
1750000	3	5	5	6	6	6	6	6	6
1800000	3	5	6	6	6	6	6	6	6
1900000	3	5	6	6	6	6	6	6	6
2000000	3	5	6	6	6	6	6	6	6

For sizes not greater than No. 10 B & S. gage, one more conductor than permitted by the above table may be installed in the specified conduit provided that conduit is not longer than 30 feet, and has not more than the equivalent of two-quarter bends from outlet to outlet, the bends at the outlets not being counted.

TELEGRAPH CODE

WAA—Referring

WAABZ..... Referring to your letter of
WAACY..... Referring to your telegram of
WAAEW..... Referring to your order number
WAAFY..... Referring to our letter of
WAAGU..... Referring to our telegram of
WAAIS..... Referring to our order number

WAB—Reply

WABCZ..... Reply by mail today sure
WABDY..... Reply by telegram at once
WABFW..... Reply by telephone at once

WAC—Terms, Prices Discounts

WACDZ..... All material shipped F. O. B. Detroit, no freight allowance.
WACEY..... All material shipped F. O. B. Detroit, freight allowed not to exceed \$1.00 per hundred pounds.
WACFX..... Your order number specifies shipment F. O. B. Destination, can only ship F. O. B. Detroit. No freight allowance; shall we change order.
WACGW..... Your order number specifies shipment F. O. B. destination, can only ship F. O. B. Detroit; shall we change order.
WACHV..... Discount specified on order number should be per cent. Shall we change your order
WACIU..... List price of catalog number is Schedule Discounts apply.
WACJT..... Material on order number subject to Schedule Discounts; shall we correct order.

WAD—Orders

WADEZ..... On Order number ship freight collect.
WADFY..... On Order number ship freight prepaid.
WADGX..... On Order number ship express collect.
WADHW..... On Order number ship express prepaid and charge.
WADIV..... Add to Order number
WADJU..... Cancel Order number
WADKT..... Hold Order number for further instructions.
WADLS..... Increase Order number to call for
WADMR..... Catalog number item your order does not agree with description; send correct information.
WADNQ..... Catalog number item your order number not correct; please advise.
WADOP..... Before we can enter your order we must know

WAE—Shipments and Deliveries

WAEFZ..... Change shipping instructions order number to express collect.
WAEGY..... Change shipping instructions order number to express prepaid and charge.
WAEHX..... On order number ship express collect at once: balance freight.
WAEIW..... Rush partial shipment order number at once.
WAEJV..... Order number was shipped complete via on
WAELT..... Partial shipment will be made on Order number on
WAEMS..... Complete shipment will be made on Order number on
WAENR..... When will you ship Order number?
WAEQQ..... Will ship order number
WAEPP..... Trace shipment made on order number on
WAEQO..... We are tracing shipment made on order number on



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